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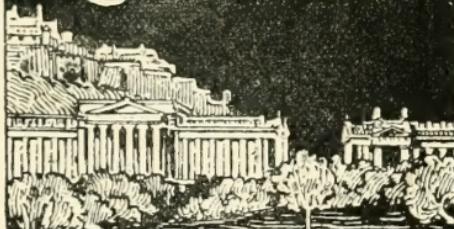
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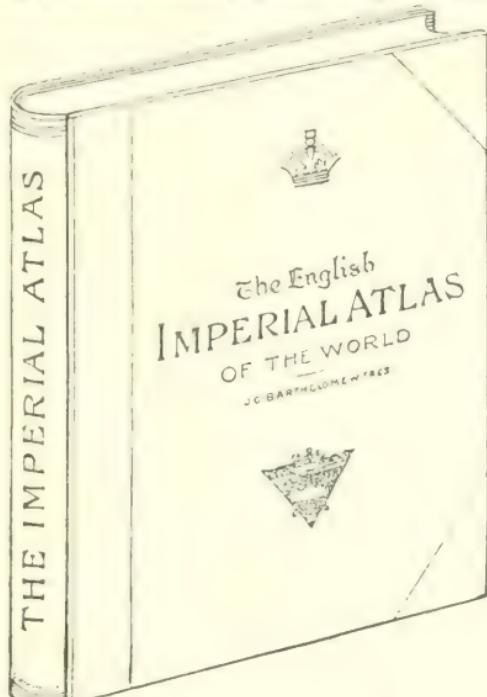
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## AUGUST 1892.

1	M
2	Tu
3	W
4	Th
5	F
6	S
7	S
8	M
9	Tu
10	W
11	Th
12	F
13	S
14	S
15	M
16	Tu
17	W
18	Th
19	F
20	S
21	S
22	M
23	Tu
24	W
25	Th
26	F
27	S
28	S
29	M
30	Tu
31	W

## SEPTEMBER 1892.

1	Th	Names of Candidates for Ferguson Scholarships to be given in before this day.
2	F	
3	S	
4	S	
5	M	
6	Tu	
7	W	
8	Th	
9	F	
10	S	
11	S	
12	M	Names of Candidates for First, Second, and Third Professional Examinations in Medicine, and for B.Sc. Examinations in Science, given in to Assistant-Clerk (Matriculation Office).
13	Tu	
14	W	
15	Th	Names of Candidates for Examination in General Education (Medical Students), for Preliminary Examination for B.Sc., and for Preliminary Examination in French and German for B.L., given in to Assistant-Clerk (Matriculation Office).
16	F	
17	S	
18	S	
19	M	
20	Tu	
21	W	
22	Th	
23	F	
24	S	
25	S	
26	M	
27	Tu	Examination in General Education or Medical Students, Preliminary Examination for Degrees in Science, and Preliminary Examination for Degree of B.L. on this and three following days. See p. 149, p. 136, and p. 161.
28	W	
29	Th	
30	F	

## O C T O B E R 1892.

		Matriculation for the Academic year begins.
1	S	Names of Candidates for Degrees in Law and Arts, for Certificate in Engineering Science, for Certificate of Literate in Arts, for Diploma for Teachers, and for Scholarships, &c., given in to Assistant-Clerk (Matriculation Office). Names of Candidates for Bursaries in the gift of the Merchants' House, for Hutchesons' Educational Trust Bursaries, for Glasgow City Educational Endowments Bursaries, and for Hannay Bursary to be given in as directed at p. 259. Examinations for Ferguson Scholarships commence.
2	S	
3	M	{ Examinations for Degrees in Medicine and Science (Zoology, Botany, Chemistry, Geology, Geodesy).
4	Tu	{ Do., do., (Physics, Physiology, Anatomy, Civil Engineering, Engineering Drawing, Naval Architecture, Ship Design).
5	W	Do., do. (Regional Anatomy, Materia Medica, Pathology, Civil Engineering).
6	Th	
7	F	
8	S	
9	S	
10	M	
11	Tu	{ Names of Competitors for Bursaries and for Preliminary Examinations in Arts given in to Assistant-Clerk (Matriculation Office).
12	W	
13	Th	
14	F	
15	S	
16	S	

## OCTOBER 1892.

17	M	Examinations in Law Subjects for Degrees in Law on this and two following days. (See p. 161.)
18	Tu	Bursary Competition and Preliminary Examinations in Arts commence. (See p. 258.) Classes in Faculty of Medicine meet. Professor Cleland's address to Medical Students.
19	W	
20	Th	Theses for M.D. given in.
21	F	
22	S	Examinations for Degrees of M.A., B.L. (Arts Subjects), B.Sc. (Arts Subjects), etc., begin. (See pp. 124, 161, 136.)
23	S	
24	M	
25	Tu	Classes in Faculty of Law meet. (Results of Bursary Competition declared.)
26	W	Classes in Faculty of Arts meet. Meeting of General Council (?).
27	Th	Meeting of University Court. Governors at Victoria Infirmary and Managers at Western Infirmary appointed.
28	F	Names of Candidates for Degree of B.D. and for Bursaries in Divinity to be given in to Assistant-Clerk (Matriculation Office).
29	S	Examination for Arnott Prizes at 2 P.M.
30	S	
31	M	Last day for receiving Tradesmen's and other Accounts for preceding half-year.

NOVEMBER 1892.

1	Tu	Classes in the Faculty of Divinity meet. Dr. Story's address.
2	W	
3	Th	{ Meeting of Senate. Election of Library and other Committees. { Examinations for B.D., and for Bursaries in Divinity, 1st day.
4	F	Do., do., 2nd day.
5	S	
6	S	
7	M	
8	Tu	
9	W	
10	Th	Graduation. Representatives at Charitable and other Boards elected. Professors' Accounts for small Class expenses to be given in.
11	F	
12	S	
13	S	
14	M	{ Last day for giving in University Prize Essays. { Matriculation ends.
15	Tu	
16	W	Class List transmitted by each Professor and Lecturer to Assistant-Clerk (Matriculation Office).
17	Th	Meeting of University Court. Accounts for half-year ending 31st October. Appointment of Assistants to Professors to be intimated.
18	F	
19	S	
20	S	
21	M	

## NOVEMBER 1892.

22	Tu
23	W
24	Th
25	F
26	S
27	S
28	M
29	Tu
30	W

## DECEMBER 1892.

1	Th
2	F
3	S
4	S
5	M
6	Tu
7	W
8	Th
9	F
10	S
11	S
12	M
13	Tu
14	W
15	Th
16	F
17	S
18	S
19	M
20	T
21	W
22	Th
23	F
24	S
25	S
26	M
27	T
28	W
29	Th
30	F
31	S

{(Second Thursday.) Meeting of Senate. Class Lists examined. Election of Armagh Bursar. Vacancies in Bursaries ascertained.  
Payment of Tradesmen's Accounts.

Meeting of the University Court. Examinership in Mathematics vacant.  
Lecturer on Insanity appointed.

Last day on which the Classes meet before the Christmas Holidays.

## JANUARY 1893.

1	S
2	M
3	Tu
4	W
5	Th
6	F
7	S
8	S
9	M
10	Tu
11	W
12	Th
13	F
14	S
15	S
16	M
17	Tu
18	W
19	Th
20	F
21	S
22	S
23	M
24	Tu
25	W
26	Th
27	F
28	S
29	S
30	M
31	Tu

First day on which the Classes meet after the Christmas Holidays.

(Second Thursday.) Meeting of Senate. Vacant Bursaries filled up.  
Appointment of Committees.

Meeting of University Court.

Holiday (Monday after last Friday of January).  
\*Holiday (for Candlemas).

## FEBRUARY 1893.

1	W
2	Th
3	F
4	S
5	S
6	M
7	Tu
8	W
9	Th
10	F
11	S
12	S
13	M
14	Tu
15	W
16	Th
17	F
18	S
19	S
20	M
21	T
22	W
23	Th
24	F
25	S
26	S
27	M
28	Tu

(Second Thursday.) Meeting of Senate.

Meeting of University Court.

Holiday (Monday after last Friday of February).

\*The Candlemas and Monthly Holidays are not observed in the Medical Faculty.

MARCH 1893.

1	W	
2	Th	Meeting of Senate. Reports of Committees on Honorary Degrees.
3	F	Reports on Prize Essays.
4	S	
5	S	
6	M	
7	Tu	{ Names of Candidates for First, Second, and Third Professional Examinations in Medicine, for B.Sc. Examinations in Science, and for Certificate in Engineering Science, given in to Assistant-Clerk (Matriculation Office).
8	W	{ Names of Candidates for Examination in General Education for Medical Students, for Preliminary Examination for B.Sc., and for French and German for B.L., given in to Assistant-Clerk (Matriculation Office).
9	Th	
10	F	{ Last day for lodging applications for Examination for Degrees in Arts and Law, for Certificate of Literate in Arts, and for Diploma for Teachers.
11	S	
12	S	
13	M	
14	Tu	
15	W	
16	Th	
17	F	
18	S	
19	S	
20	M	Theses for M.D. given in.
21	Tu	
22	W	{ Examinations in General Education for Medical Students, Preliminary Examination for Degrees in Science, and Preliminary Examination for B.L., on this and three following days. (See pp. 136, 149, 161.)
23	Th	(Penult Thursday.) Meeting of Senate. Election of Commissioner to General Assembly. Snell Examiners appointed. Winter Classes in Faculty of Medicine close.
24	F	{ Names of Candidates for Degree of B.D. given in to Assistant-Clerk (Matriculation Office).
25	S	
26	S	
27	M	
28	Tu	Examinations for Degrees in Medicine and Science—(Zoology, Botany, Chemistry, Geology, Geodesy).
29	W	Do. do. Physics, Physiology, Anatomy, Civil Engineering, Drawing, Naval Architecture, Ship Design).
		Do. do. (Regional Anatomy, Materia Medica, Pathology).
		Meeting of University Court. Examinerships vacant in Pathology, Surgery, Medicine, Physiology.
30	Th	Last day for receiving Tradesmen's, Forty-five shilling, and other Accounts for preceding half-year. Professors' Accounts of Class Expenses under Ordinance to be given in. Examinations for Degree of B.D., 1st day.
31	F	Do. do., 2nd day.

APRIL 1893.

1	S	
2	S	
3	M	
4	Tu	
5	W	{ Winter Classes in Faculty of Law close. Examinations in Law Subjects for Degrees in Law on this and two following days. (See p. 161.) Meeting of General Council (?).
6	Th	
7	F	
8	S	Examinations for Degrees in Arts, Law (Arts Subjects), and Science (Arts Subjects), for Literate in Arts, for Diploma for Teachers, and for Snell Exhibitions begin. (See pp. 124, 161, 136.)
9	S	
10	M	Examinations for Degrees in Science—(Civil Engineering).
11	Tu	
12	W	
13	Th	(Second Thursday.) Meeting of Senate.
14	F	Last day for returning Books to Library.
15		
16	S	
17	M	
18	Tu	
19	W	
20	Th	

## APRIL 1893.

21	F	Graduation in the Four Faculties. Honorary Graduation. Distribution of University Prizes.
22	S	Meeting of Senate.
23	S	
24	M	Library re-opened. } Summer Session begins.
25	Tu	
26	W	
27	Th	Meeting of University Court. Accounts for half-year ending 31st March.
28	F	
29	S	
30	S	

## MAY 1893.

1	M	
2	Tu	
3	W	
4	Th	
5	F	
6	S	
7	S	
8	M	
9	Tu	
10	W	Payment of Tradesmen's and other Accounts. Meeting of Faculty of Medicine.
11	Th	
12	F	
13	S	
14	S	
15	M	
16	Tu	Names of Candidates for Final Professional Examination in Medicine given in to Assistant-Clerk (Matriculation Office).
17	W	
18	Th	Meeting of University Court.
19	F	
20	S	
21	S	
22	M	
23	Tu	
24	W	
25	Th	
26	F	
27	S	
28	S	
29	M	
30	Tu	
31	W	

J U N E 1893.

1	Th
2	F
3	S
4	S
5	M
6	Tu
7	W
8	Th
9	F
10	S
11	S
12	M
13	Tu
14	W
15	Th
16	F
17	S
18	S
19	M
20	Tu
21	W
22	Th
23	F
24	S
25	S
26	M
27	Tu
28	W
29	Th
30	F

Clinical Examinations begin.

Theses for M. D. given in.

Meeting of University Court.

J U L Y 1893.

1	S
2	S
3	M
4	Tu
5	W
6	Th
7	F
8	S
9	S
10	M
11	Tu
12	W
13	Th
14	F
15	S
16	S
17	M
18	Tu
19	W
20	Th
21	F
22	S
23	S
24	M
25	Tu
26	W
27	Th
28	F
29	S
30	S
31	M

Final Professional Written Examinations for Degrees in Medicine on  
this and two following days. (See p. 149.)

{Meeting of University Court.  
{Meeting of Senate. Graduation in Medicine.

## UNIVERSITY OFFICERS.

	Elected.	Electors.
<i>Chancellor</i> —THE RIGHT HON. THE EARL OF STAIR, K.T., LL.D., - - - - -	1884	General Council.
<i>Vice-Chancellor</i> —JOHN CAIRD, D.D., LL.D.,	1873	Chancellor.
<i>Rector</i> —THE RIGHT HON. ARTHUR JAMES BALFOUR, M.A., LL.D., M.P.,	1890	{ Matriculated Students.
<i>Principal</i> —JOHN CAIRD, D.D., LL.D.,	1873	Crown.
<i>Dean of Faculties</i> —SHERIFF BERRY, LL.D.,	1892	Senate.
<i>Parliamentary Representative</i> —JAMES A. CAMPBELL, LL.D., - - - - -	1880	General Council.

## University Court.

THE RECTOR, *ex officio*.

THE PRINCIPAL, *ex officio*.

THE LORD PROVOST OF GLASGOW, *ex officio*.

	Elected.	Electors.
SIR JAMES KING, BART., LL.D., - - - - -	1887	Chancellor.
SIR ARCHIBALD CAMPBELL, BART., LL.D., -	1891	Rector.
JAMES COLQUHOUN, Esq., - - - - -	1890	{ Lord Provost, Magistrates, and Town Council of Glasgow.
HECTOR C. CAMERON, M.D., - - - - -	1889	
SIR JOHN N. CUTHBERTSON, - - - - -	1889	{ General Council.
REV. J. W. KING, M.A., - - - - -	1891	
D. C. M'VAIL, M.B., C.M., - - - - -	1891	
SHERIFF BERRY, LL.D., - - - - -	1889	
PROFESSOR STEWART, D.D., - - - - -	1889	{ Senate.
PROFESSOR RAMSAY, LL.D., - - - - -	1890	
PROFESSOR LEISHMAN, M.D., - - - - -	1891	

## Senatus Academicus.\*

PRESIDENT, - - - - THE PRINCIPAL, - - - - 1873

## PROFESSORS.

	CHAIRS	Appointed
William Purdie Dickson, D.D., LL.D., -	<i>Divinity</i> , - - -	- 1873
Lord Kelvin, LL.D., D.C.L., P.R.S., -	<i>Natural Philosophy</i> , -	1846
Robert Grant, LL.D., F.R.S., - - -	<i>Practical Astronomy</i> , -	1859
William T. Gairdner, M.D., LL.D., -	<i>Practice of Medicine</i> , -	1862
George G. Ramsay, LL.D., - - -	<i>Humanity</i> , - - -	1863
John Veitch, LL.D., - - -	<i>Logic and Rhetoric</i> , -	1864
Edward Caird, LL.D., D.C.L., - - -	<i>Moral Philosophy</i> , -	1866
John Young, M.D., - - -	<i>Natural History</i> , -	1866
William Leishman, M.D., - - -	<i>Midwifery</i> , - - -	1868
Sir George H. B. Macleod, M.D., LL.D.,	<i>Surgery</i> , - - -	1869
Pierce A. Simpson, M.A., M.D., -	<i>Forensic Medicine</i> , -	1872
William Stewart, D.D., - - -	<i>Biblical Criticism</i> , -	1873
George Buchanan, M.A., M.D., LL.D.,	<i>Clinical Surgery</i> , -	1874
T. M'Call Anderson, M.D., - - -	<i>Clinical Medicine</i> , -	1874
John Ferguson, M.A., LL.D., F.S.A., -	<i>Chemistry</i> , - - -	1874
John Gray M'Kendrick, M.D., LL.D., F.R.S., - - -	<i>Institutes of Medicine</i> , -	1876
James Robertson, D.D., - - -		1877
John Cleland, M.D., LL.D., D.Sc., F.R.S., - - -	<i>Anatomy</i> , - - -	1877
William Jack, LL.D., - - -		1879
Matthew Charteris, M.D., - - -	<i>Materia Medica</i> , -	1880
Frederick O. Bower, D.Sc., F.R.S., -	<i>Botany</i> , - - -	1885
Robert Herbert Story, D.D., - - -	<i>Church History</i> , -	1886
Alexander Moody Stuart, - - -	<i>Law</i> , - - -	1887

\* "The precedence of the Masters in point of ceremony shall, in all time coming, be, that the Professor of Divinity take place first after the Principal, and that all the other Masters and Professors of whatever kind take place of other according to the seniority and time of their admissions into their respective offices."—*Statute of Royal Visitation, 1727.*

PROFESSORS *Continued.*

		CHAIRS.	Appointed
Andrew Cecil Bradley, M.A.,	-	{ <i>English Language</i> and <i>Literature,</i>	1889
George G. A. Murray, B.A.,	-	{ <i>Greek,</i>	1889
Archibald Barr, D.Sc.,	-	{ <i>Civil Engineering</i> and <i>Mechanics,</i>	1889
James Moir,	-	{ <i>Conveyancing,</i>	1889
John Harvard Biles,	-	{ <i>Naval Architecture,</i> including <i>Marine</i> <i>Engineering,</i>	1891

## Lecturers.

John Young, M.D.,	-	-	-	<i>Honyman Gillespie Lecturer.</i>
Thomas Reid, M.D.,	-	-	-	<i>Waltonian Lecturer.</i>
Joseph Coats, M.D.,	-	-	-	<i>Pathology.</i>
Wm. Galbraith Miller, M.A., LL.B.,	-	-	-	<i>Public Law.</i>
Robert T. Younger, M.A., LL.B.,	-	-	{	<i>Constitutional Law and</i> <i>History.</i>
David Yellowlees, M.D., LL.D.,	-	-	-	<i>Insanity.</i>
John Caird, D.D., LL.D.,	-	-	{	<i>Natural Theology</i> (Gifford Foundation).
Alexander Tille, Ph.D.,	-	-	-	<i>German Literature.</i>

## DEMONSTRATORS AND ASSISTANTS TO PROFESSORS.

<i>Humanity,</i>	-	-	{ John Brown, M.A. Daniel Rankin, B.A.
<i>Greek,</i>	-	-	{ Alexander Murdoch. Robert Montague Burrows, B.A.
<i>Natural Philosophy,</i>	-	-	Magnus Maclean, M.A.
<i>Arnott and Thomson Demonstrator in Experimental Physics,</i>	-	-	{ James Thomson Bottomley, M.A., D.Sc., F.R.S.
<i>Mathematics,</i>	-	-	George A. Gibson, M.A.
<i>Young Assistant in Civil Engineering and Mechanics,</i>	-	-	{ Alexander B. Dobbie, B.Sc.
<i>Naval Architecture,</i>	-	-	Percy S. Pilcher.
<i>Practice of Medicine,</i>	-	-	George S. Middleton, M.A. M.D.

<i>Anatomy,</i>	- - - - -	$\left\{ \begin{array}{l} \text{John Yule MacKay, M.D.} \\ \text{George Lamb, M.B., C.M.} \\ \text{John Morton, M.B., C.M.} \end{array} \right.$
<i>Baxter Demonstrator in Geology,</i>	- - - - -	
<i>Surgery,</i>	- - - - -	George T. Beatson, M.D.
<i>Midwifery,</i>	- - - - -	Murdoch Cameron, M.D.
<i>Chemistry,</i>	- - - - -	$\left\{ \begin{array}{l} \text{James Stanley Muir, B.Sc.} \\ \text{William R. Lang, B.Sc.} \end{array} \right.$
<i>Botany,</i>	- - - - -	Benjamin G. Cormack, M.A., B.Sc.
<i>Materia Medica,</i>	- - - - -	William MacLennan, M.B., C.M.
<i>Muirhead Demonstrator of Physiology,</i>	- - - - -	$\left\{ \begin{array}{l} \text{William Snodgrass, M.A., M.B., C.M.} \end{array} \right.$
<i>Forensic Medicine,</i>	- - - - -	Donald Munro, M.D.
<i>Clinical Surgery,</i>	- - - - -	J. C. Renton, M.D.
<i>Clinical Medicine</i> (Dr. Anderson),	- - - - -	$\left\{ \begin{array}{l} \text{William G. Dun, M.D.} \\ \text{John F. Fergus, M.A., M.B., C.M.} \end{array} \right.$
<i>Clinical Medicine</i> (Dr. Gairdner),	- - - - -	$\left\{ \begin{array}{l} \text{George S. Middleton, M.A., M.D.} \\ \text{Charles O. Hawthorne, M.B., C.M.} \end{array} \right.$

## EXAMINERS FOR DEGREES.

*In Divinity.*—The Professors in the Faculty of Divinity.

*In Law.*—The Professors in the Faculty of Law, assisted by  
 William Galbraith Miller, LL.B., Advocate.  
 Robert T. Younger, LL.B., Advocate.  
 W. Craig Roberton, LL.B.

*In Medicine.*—The Professors in the Faculty of Medicine,  
 assisted by

Joseph Coats, M.D.	Ebenezer Duncan, M.D.
David Newman, M.D.	A. E. Maylard, M.B.
Wm. J. Fleming, M.D.	Thomas Oliver, M.D.
George A. Gibson, M.D.	C. M. Aikman, M.A., B.Sc.
Alex. M. Buchanan, M.D.	J. R. Green, M.A., F.L.S.
Ralph Stockman, M.D.	John Phillips, M.D.
D'Arcy W. Thompson, B.A.	William J. Naismith, M.D.

*In Arts.*—The Professors of Humanity, Greek, Logic, Moral Philosophy, Natural Philosophy, Mathematics, and English Literature, assisted by

James Buchanan, M.A., Examiner in Mathematics,	-	1889*
J. W. Marshall, M.A.,	" Classics,	- - 1890
J. H. Muirhead, M.A.,	" Mental Philosophy,	1891

*In Science.*—Professor Lord Kelvin, D.C.L., Professor Grant, LL.D., Professor Young, M.D., Professor Ferguson, LL.D., Professor McKendrick, M.D., Professor Cleland, M.D., Professor Jack, LL.D., Professor Bower, D.Sc., Professor Barr, D.Sc., Professor Biles.

#### OTHER OFFICIALS.

<i>Keeper of Hunterian Library and Museum,</i>	-	{ Professor Young, M.D.
<i>Under-Keeper,</i>	-	John Young, F.G.S.
<i>Curator of Library,</i>	-	Professor Dickson, D.D., LL.D.
<i>Librarian,</i>	-	James Lymburn.
<i>Sub-Librarian,</i>	-	James L. Galbraith.
<i>Secretary to the University Court,</i>	-	{ Alan E. Clapperton, B.L., 91 West Regent Street.
<i>Clerk of Senate,</i>	-	{ Professor Stewart, D.D., 18 Annfield Terrace, Partickhill.
<i>Assistant-Clerks,</i>	-	{ W. Innes Addison, Matriculation Office.
<i>Registrar of the General Council,</i>	-	{ James Coutts, M.A., Registration Office.
<i>Clerk of the General Council,</i>	-	{ Archibald Craig, LL.B., 156 St. Vincent Street.
<i>Factors,</i>	-	Hill & Hoggan, 194 Ingram Street.
<i>Law-Agents,</i>	-	{ Mitchells, Johnston, & Co., 160 West George Street.
<i>Auditors,</i>	-	{ Brown, Fleming, & Murray, 163 West George Street.
<i>Publishers and Booksellers to the University,</i>	-	{ James MacLehose & Sons, 61 St. Vincent Street.

\* Mr. Buchanan's term of office expires in the end of December.

<i>Printer to the University,</i>	- { Robert MacLehose, 153 West Nile Street.
<i>Robe Makers to the University,</i>	- { James Thomson & Son, 84 St. Vincent Street.
<i>Head Servants,</i>	- { Bedellus and Janitor, - { Lauchlan M'Pherson. Master of Works, - David Stewart.

### Students' Representative Council.

*President*—John White, M.A.

*Vice-Presidents*—R. S. Horne ; D. F. Harris, B.Sc.

*Secretary*—James Aiken, M.A., 1 Glenavon Terrace, Partick.

*Assistant Secretaries*—John H. Pagan, M.A. (Divinity) ; F. A. Macquisten, B.L. (Arts) ; John D. Allison, M.A. (Law) ; and John Patrick, M.A. (Medicine).

*Treasurer*—James W. Cleland, Bonneville, Maryhill.

*Executive Committee.* *Divinity*—William Thomson, M.A. ; *Law*—R. Scott Brown, M.A. ; *Medicine*—James Carslaw, M.A., Joshua Ferguson, M.A. ; *Arts*—James Ferguson, W. Craig Henderson, W. Nelson.

## I.—THE UNIVERSITY.

The University of Glasgow is a corporate body, which has always included a Chancellor, Rector, Dean of Faculties, Principal, Professors, and Students. It was originally founded, like most other ancient establishments of the same nature, by the authority of the See of Rome. Pope Nicholas V, by a bull, dated the seventh of January, 1450-1, erects and establishes in Glasgow a “*Studium Generale . . . tam in theologia ac jure canonico et civili, quam in artibus, et quavis alia licita facultate.*” He then declares that this University shall have the same power of creating Masters and Doctors as any other “*studium generale*” in Christendom, and appoints the Bishop of Glasgow and his successors, Chancellors and Rectors by his authority. In the same year a body of statutes was prepared, and the University established by the exertions of the Bishop and his Chapter. It consisted, at this time, of the Chancellor and Rector, of various Masters and Doctors in the Faculties of Theology, Canon Law, and the Arts; and, lastly, of the incorporated students in these Faculties, who might be promoted to the same degrees in each, after following out the course of study prescribed in the statutes.

The University, at this time, had received no endowments, and was possessed of no property, except a University purse, into which were put some small perquisites on conferring degrees, and the patronage of two or three small chaplainries. It continued, however, to discharge its important functions with great zeal and activity, and attracted a greater number of members than could well have been expected in that rude period of society. The University Records contain little information as to lectures delivered in the Higher Faculties, or the number of the students who attended them. But we learn that within three or four years after the establishment of the University, so many young men were matriculated in the Faculty of Arts, that it was thought expedient to provide a house in which they

might reside, and to secure a regular set of teachers for their instruction.

The house provided for the accommodation of the students in Arts was known by the name of Pædagogium, or the College of Arts. It is said to have been situated in the Rottenrow; but in the year 1460, James, Lord Hamilton, bequeathed to Mr. Duncan Bunch, principal Regent of the College of Arts, and his successors, Regents, for the use of the said College, a tenement in the High Street, with four acres of land adjoining. In buildings situated on this ground the classes of the University continued to meet for upwards of four hundred years.

The Reformation produced at first great disorder in the University, its members being clergymen of the Catholic persuasion, and its chief support being derived from the Church. In 1577, James VI prescribed very particular rules with regard to the College and the form of its government, and made a considerable addition to its funds. The charter by which the king made these regulations, and gave that property, is known by the name of *Nova Erectio*.

By this charter, provision was made for the support of a Principal, who was to teach Theology and the Holy Scriptures, and was also Professor of Hebrew and Syriac, and three Regents, of whom one was to teach Greek and Rhetoric, another Dialectics, Morals, and Politics, with the Elements of Arithmetic and Geometry, and the third, who was also Sub-Principal, was to teach all the branches of Physiology and Geography, Chronology and Astrology. The Regents were to keep each by his own Profession, so that the student had a new Regent every year.\*

From this small beginning, the University continued to prosper till the era of the Restoration, having at that time, besides the Principal, two Professors of Theology, one of Medicine, four Regents or Professors of Philosophy, and one of Humanity, a Librarian, with a tolerable Library, an increased number of Bursars and of other students of all ranks. At the Restoration, however, being deprived of a great part of its revenues in consequence of the re-establishment of Episcopacy, three of the Professorships fell into abeyance, and the College was again reduced to a Principal,

\* This system was altered in 1642, in accordance with the practice of the other Universities; but returned to after the Revolution. The four classes necessary to Graduation in Arts were called—the first, Bajan; the second, Semi; the third, Baccalour; the fourth, Magistrand.

a Professor of Theology, and four Regents. This state of matters continued till the Revolution, when the University again began to prosper after a long period of depression.\* In the first twenty years of last century, six Professorships were either originally founded or revived—viz., those of Humanity (1706), Oriental Languages (1709), Civil Law (1712), Medicine (1712), Church History (1716), and Anatomy (1718); and to these a Professorship of Astronomy was added in 1760. The remaining fifteen Professorships were founded during the present century—viz., Natural History (1807), Surgery (1815), Midwifery (1815), Chemistry (1817), Botany (1818), Materia Medica (1831), Institutes of Medicine (1839), Forensic Medicine (1839), Civil Engineering (1840), Conveyancing (1861), English Language and Literature (1861), Divinity and Biblical Criticism (1861), Clinical Surgery (1874), Clinical Medicine (1874), Naval Architecture (1883).

#### UNIVERSITY BUILDINGS.

The changes in the City of Glasgow having so entirely altered the character of the district in which the University Buildings were planted four hundred years ago, as to render the locality altogether unsuitable for an Academic Institution; and the buildings themselves having become, by their limited extent and defective construction, inadequate for the modern requirements of a great educational establishment; measures were adopted for the removal of the University to more extended and commodious buildings, and for this purpose a large extent of ground was secured in the lands of Gilmorehill, in the western part of the City.

In 1846, a Bill for the sale of the College grounds and buildings to the Monklands Junction Railway Company, and the transference of the University to a new site on Woodlands, was passed by both Houses of Parliament, and received the Royal assent. But that measure failed by the inability of the Railway Company to implement their engagements; and the Senate of the University found no favourable opportunity for the renewal of the scheme, till the year 1863, when a proposal for the purchase of the College lands and buildings was made by the City of Glasgow Union Railway Company, and a sale was accordingly effected to that Company, under their Act of Parliament, in 1864, at the price of £100,000.

\* See Dr. Thomas Reid's Account of the University of Glasgow.

The funds at the disposal of the University to carry out the scheme of removal consisted of—(1.) The produce of the sale of the old College and grounds, £100,000,—(2.) A sum of £17,500, consisting of the principal sum of £10,000, obtained by the University as compensation from the Monklands Junction Company, for non-fulfilment of their agreement, with interest since the time of payment, and—(3.) A sum of £21,400, promised by Her Majesty's Government in aid of the scheme of removal, conditionally on a further sum of £24,000 being raised by public subscription, for the erection of a sick hospital in connection with the new University Buildings.

With these funds at their disposal, buildings might have been erected sufficient for the transaction of the ordinary business of instruction in the same manner as heretofore, and for the accommodation of the Library and Museum, but they must have been of the plainest design, and on a scale quite inadequate to provide for the future extension of the University.

In these circumstances, the Senate resolved to make an earnest appeal for aid to the Government and to the public. This appeal was responded to in the most generous and gratifying manner. In a short time a sum of nearly £100,000 was subscribed, chiefly in the City of Glasgow; and the Government, appreciating the importance of the work, and the public interest it had excited, announced their intention to ask Parliament for the sum of £120,000, in six annual instalments, on condition of a like amount being raised by subscription and expended on the buildings. This sum was paid out of the National Treasury, and there has been received from the public subscription for the University Buildings and the Western Infirmary and from legacies the large amount of £256,429, including £45,000 from the Marquis of Bute for the erection of the Bute Hall, £5,000 from Dr. J. M'Intyre for the University Union Buildings, £4,274 from the late Sir William Pearce, Bart., for the removal of the old College front and the re-erection of the materials at the north-east gateway, £5,000 bequeathed by Mr. Andrew Cunningham, and £1,000 (less legacy duty) bequeathed by Mr. James Marshall for the completion of the tower, and special subscriptions amounting to £2,600 for building and furnishing the Gymnasium. A sum of £30,000 was allocated to the Western Infirmary. New buildings, designed by the late Sir G. Gilbert Scott, were erected on the grounds of Gilmorehill; and in these buildings

the classes of the University met for the first time in session 1870-71.

## GOVERNMENT OF THE UNIVERSITY.

Previous to the Universities Act of 1858, the whole business of the University was transacted in three distinct courts—namely, the Senate, the Faculty, and the Comitia.

The *Senate* consisted of the Rector, the Dean, the Principal, and all the Professors of the University. Meetings of the Senate were held for conferring degrees, and for the management of the libraries and other matters belonging to the University.

The *Faculty*, or College Meeting, consisted of the Principal, who presided, and the Professors of Divinity, Church History, Oriental Languages, Natural Philosophy, Moral Philosophy, Mathematics, Logic, Greek, Humanity, Civil Law, Medicine, Anatomy, and Practical Astronomy. The Members of Faculty had the administration of the whole revenue and property of the College, along with the right of exercising the patronage of eight professorships vested in the College. They also presented a Minister to the Parish of Govan, and had the gift of various bursaries.

The Constituent Members of the *Comitia* were the Rector, the Dean, the Principal, the Professors, and the Matriculated Students of the University. The Rector or Vice-Rector presided in this court, and also in the Senate. Meetings of the Comitia were held for the election and admission of the Rector, for hearing the inaugural discourses of the Principals and Professors previously to their admission to their respective offices, and for promulgating the laws of the University.

Besides these a court, called the *Jurisdictio Ordinaria*, consisting of the Principal, the four Regents (viz., the Professors of Greek, Logic, Ethics, and Physics), and the Professor of Humanity, with the gowned students, met occasionally, for the exercise of discipline over the junior students.

By the Scottish Universities Act, 21 and 22 Vict., chap. 85, important changes were made in the constitution and government of the University. The distinction between the Faculty and the Senate was abolished; two new bodies, called the University Court, and University Council, were instituted; and Commissioners were appointed, armed with extensive powers of revision and regulation, who issued ordinances, sanctioned by Her Majesty, for the administration of the affairs of the University.

Further changes were made by the Universities (Scotland) Act, 1889. A Committee of Her Majesty's Privy Council has been constituted, styled the Scottish Universities Committee of the Privy Council. An Executive Commission has been created and is now sitting, with power to repeal or modify any ordinance made under the Act of 1858. The Commissioners are empowered to lay down regulations for the constitution of a Students' Representative Council, and to frame regulations under which that Council shall be entitled to make representations to the University Court.

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### CHANCELLOR.

The Chancellor is the head of the University, and, by himself or his deputy, has the privilege of conferring Academical Degrees upon persons found qualified by the Senate. All changes in the internal arrangements of the University must have the sanction of the Chancellor before being carried into effect. He is elected by the General Council, of which he is president. His office is held during life. He nominates an Assessor in the University Court, and he is empowered to appoint a Vice-Chancellor to discharge his office in his absence, so far as regards conferring Degrees, but in no other respect. The office of Vice-Chancellor has usually been, and is now, held by the Principal.

#### *Chancellors from the year 1642.*

1642.	James Hamilton, Marquis of Hamilton.		
1660.	William Cunningham, Earl of Glencairn.		
1661.	Andrew Fairfowl, Archbishop of Glasgow.		
1664.	Alexander Burnett,	"	"
1670.	Robert Leighton,	"	"
1674.	Alexander Burnett,	"	"
1679.	Arthur Ross,	"	"
1684.	Alexander Cairncross,	"	"
1687.	John Paterson,	"	"
1692.	John Carmichael, Earl of Hyndford.	"	"
1715.	James Graham, Duke of Montrose.		
1743.	William Graham,	"	"
1781.	James Graham,	"	"
1837.	James Graham,	"	"
1875.	Sir William Stirling-Maxwell,	Bart., M.P.	
1878.	Walter Francis, Duke of Buccleuch and Queensberry,	K.G.	
1884.	JOHN HAMILTON DALRYMPLE, EARL OF STAIR,	K.T.	

## RECTOR

The Rector is elected by the matriculated students of the University, divided into four nations.<sup>1</sup> In the case of an equality of nations the Chancellor has, in accordance with the Act of 1858, the casting vote, but the Act of 1889 gives the Commissioners power to ordain that the election shall be determined by the majority of votes of all the students voting whenever the votes of the nations shall be equally divided. The election takes place upon the 15th November (the 16th, if the 15th falls on a Sunday); the term of office is three years. The Rector is the official President of the University Court.

*Rectors from 1773.*

- 1773. Charles Cathcart, Lord Cathcart.
- 1775. Lord Chief Baron Montgomerie.
- 1777. Andrew Stewart, Esq. of Torrance.
- 1779. James Maitland, seventh Earl of Lauderdale.
- 1781. Right Hon. Henry Dundas.
- 1783. Right Hon. Edmund Burke.
- 1785. Robert Graham, Esq. of Gartmore.
- 1787. Adam Smith, LL.D.
- 1789. Walter Campbell, Esq. of Shawfield.
- 1791. Thomas Kennedy, Esq. of Dunure.
- 1793. William Mure, Esq. of Caldwell.
- 1795. William M'Dowall, Esq. of Garthland.
- 1797. George Oswald, Esq. of Auchincruive.
- 1799. Right Hon. Sir Ilay Campbell, Lord President.
- 1801. William Craig, a Lord of Session.
- 1803. Lord Chief Baron Dundas.
- 1805. Henry Glassford, Esq. of Dugalston.
- 1807. Archibald Colquhoun, Esq. of Killermont.
- 1809. Archibald Campbell, Esq. of Blythswood.
- 1811. Lord Archibald Hamilton.
- 1813. Thomas Graham, Lord Lynedoch.
- 1815. David Boyle, Lord Justice Clerk.
- 1817. George Boyle, Earl of Glasgow.

<sup>1</sup> The nations are constituted as follows:—

1. The Natio Glottiana consists of all matriculated students born within the County of Lanark.

2. The Natio Transforthana consists of all matriculated students born within any of the Counties of Orkney and Shetland, Caithness, Sutherland, Ross, Inverness, Cromarty, Nairn, Moray, Banff, Aberdeen, Perth, Forfar, Kincardine, Clackmannan, Fife, Kinross, Argyle, Stirling, and Dumbarton.

3. The Natio Rothseiana consists of all matriculated students born within any of the Counties of Bute, Renfrew, and Ayr.

4. The Natio Loudoniiana consists of all matriculated students not included in any of the other nations.

1819. Kirkman Finlay, Esq., M.P.  
 1820. Francis Jeffrey, Esq., Advocate.  
 1822. Sir James Mackintosh, M.P.  
 1824. Henry Brougham, Esq., M.P.  
 1826. Thomas Campbell, LL.D.  
 1829. Henry Petty, Marquis of Lansdowne.  
 1831. Henry Cockburn, Esq., Solicitor-General.  
 1834. Lord Stanley, M.P.  
 1836. Sir Robert Peel, Bart., M.P.  
 1838. Sir J. G. R. Graham, Bart., M.P.  
 1840. John Campbell, Marquis of Breadalbane.  
 1842. Right Hon. Fox Maule, M.P.  
 1844. Andrew Rutherford, Esq.  
 1846. Lord John Russell.  
 1847. Colonel Mure of Caldwell.  
 1848. Thomas Babington Macaulay, Esq.  
 1850. Archibald Alison, Esq., Sheriff of Lanarkshire.  
 1852. Earl of Eglinton.  
 1854. Duke of Argyle.  
 1856. Sir Edward Bulwer Lytton.  
 1859. Earl of Elgin.  
 1862. Viscount Palmerston.  
 1865. John Inglis, Lord Justice Clerk.  
 1868. Lord Stanley (now Earl of Derby).  
 1871. Right Hon. Benjamin Disraeli, M.P. (Earl of Beaconsfield).  
 1877. Right Hon. William Ewart Gladstone, M.P.  
 1880. Right Hon. John Bright, M.P.  
 1883. Right Hon. Henry Fawcett, M.P.  
 1884. Edmund Law Lushington, LL.D., D.C.L.  
 1887. Right Hon. Earl of Lytton, G.C.B., G.C.S.I., C.I.E.  
 1890. RIGHT HON. ARTHUR JAMES BALFOUR, M.P.
- 

## DEAN OF FACULTIES.

From the beginning there has been in the University an officer of dignity with the title of Dean of Faculty or Dean of Faculties. The duties of the office, as originally constituted, were to exercise a superintendence over the studies, and, in conjunction with the Masters, to judge of the qualifications of applicants for degrees. From the year 1772 it was the duty of the Dean, in concert with the Rector and the Minister of Glasgow, to examine the accounts of the administration of the Revenue, and to give advice to the Principal and Professors, when it was necessary for them to institute a judicial inquiry

into the conduct of any of their number. By the Universities Act of 1858 the Dean of Faculties was a member of the University Court, but in the enumeration of the constituent members of the new University Court in the Act of 1889 the name does not occur. The election is made annually by the Senate at the close of the winter session.

*Deans from the year 1800.*

1800. James Couper, D.D.	1841. Lord Dunfermline.
1802. Archd. Campbell, Esq., of Succoth.	1843. Sir T. Makdougall Brisbane, Bart.
1804. Gavin Gibb, D.D.	1845. A. Maconochie, Lord Meadowbank.
1806. Duncan Macfarlan, D.D.	1847. Earl of Eglinton.
1808. Gavin Gibb, D.D.	1849. Colonel Mure of Caldwell, M.P.
1810. Duncan Macfarlan, D.D.	1851. W. Lockhart, Esq., M.P.
1812. Gavin Gibb, D.D.	1853. Colonel Mure.
1814. Stevenson Macgill, D.D.	1854. W. Lockhart, Esq.
1815. Archibald Campbell, Esq., M.P.	1857. W. Stirling, Esq., of Keir, M.P.
1817. Sir John Connel.	1860. J. Moncreiff, Lord Advocate.
1819. Archibald Campbell, Esq., M.P.	1863. Sir A. I. Campbell of Succoth.
1821. Sir John Connel.	1865. Henry Glassford Bell, Esq.
1823. Archibald Campbell, Esq., M.P.	1868. Sir James Fergusson, Bart.
1825. Sir John Connel.	1869. Sir Thos. E. Colebrooke, Bart., M.P.
1827. Archibald Campbell, Esq., M.P.	1872. Archd. Orr Ewing, Esq., M.P.
1829. Sir John Connel.	1876. Alexander B. M'Grigor, LL.D.
1831. Archibald Campbell, Esq.	1879. James King, Esq.
1833. Sir A. Campbell, Bart.	1882. R. W. Cochran-Patrick, LL.D., M.P.
1835. Archibald Campbell, Esq.	1885. Alexander Crum, Esq., M.P.
1837. Sir A. Campbell, Bart.	1888. ROBERT BERRY, LL.D., Sheriff of Lanarkshire.
1839. Kirkman Finlay, Esq.	

**PRINCIPAL**

The office of Principal or Principal Regent of the College was almost coeval with the foundation of the University, and was regulated anew by James VI., in 1577. It is in the appointment of the Crown. The Principal is President of the Senatus Academicus ; and is also, *ex officio*, a member of the University Court.

*Principals from the year 1574.*

1574. Andrew Melville.	1684. James Fall.
1580. Thomas Smeaton.	1690. William Dunlop.
1582. Patrick Sharpe.	1701. John Stirling.
1615. Robert Boyd.	1728. Neil Campbell.
1622. John Cameron, D.D.	1761. Wm. Leechman, D.D.
1626. John Strang, D.D.	1786. Archd. Davidson, D.D.
1650. Robert Ramsay.	1803. William Taylor, D.D.
1653. Patrick Gillespie.	1823. Duncan M'Farlan, D.D.
1661. Robert Baillie, D.D.	1858. Thomas Barclay, D.D.
1662. Edward Wright.	1873. JOHN CAIRD, D.D.

## UNIVERSITY COURT.

The University Court consists of (*a*) the Rector, (*b*) the Principal, (*c*) the Lord Provost of Glasgow for the time being, (*d*) an Assessor nominated by the Chancellor, (*e*) an Assessor nominated by the Rector, (*f*) an Assessor nominated by the Lord Provost, Magistrates, and Town Council of Glasgow, (*g*) four Assessors elected by the General Council, (*h*) four Assessors elected by the Senatus Academicus.<sup>1</sup> There is a further provision in the Act of 1889 for the representation of affiliated Colleges.

The Rector's Assessor continues in office three years, and the other Assessors four years.

The University Court is a body corporate, in which is vested all the property belonging to the University. By the Act of 1889 it is enacted that the University Court, in addition to the powers conferred upon it by the Act of 1858, shall, subject to any ordinances made by the Commissioners have power—

1. To administer the whole revenue and property of the University, including share of annual Government Grant, and bursary and other mortifications.

2. To review any decision of the Senate, appealed against by a member of Senate or other member of the University interested, and to receive representations and reports from the Senate and the General Council.

3. To review, on representation by any member of the

<sup>1</sup> *Assessors since the University Court was constituted.*

## CHANCELLOR.

- 1859. John Robertson, D.D., Glasgow.
- 1865. A. Sym, D.D., New Kilpatrick.
- 1871. James Pearson, D.D., Strathblane.
- 1874. Robert Jamieson, D.D., Glasgow.
- 1878. J. A. Campbell, LL.D., Stracathro.
- 1887. Sir JAMES KING, BART., LL.D.

## RECTOR.

- 1860. Thomas Buchanan, Esq.
- 1863. Walter Buchanan, Esq., M.P.
- 1866. Archibald Orr Ewing, Esq.
- 1869. James A. Campbell, LL.D.
- 1875. Alexander Crum, Esq.
- 1880. Charles Cameron, M.D., LL.D., M.P.
- 1884. A. B. M'Grigor, LL.D.
- 1887. James Grahame, Esq.
- 1890. SIR ARCHD. CAMPBELL, BART., LL.D.

## LORD PROVOST, MAGISTRATES, AND TOWN COUNCIL OF GLASGOW.

- 1889. JAMES COLQUHOUN, Esq.

## GENERAL COUNCIL.

- 1859. Andrew Baillantyne, LL.D.
- 1864. Lord Kinloch.

- 1867. Anderson Kirkwood, LL.D.
- 1887. R. W. Cochran-Patrick, LL.D.
- 1889. David Hannay, Esq.
- 1889. HECTOR C. CAMERON, M.D.
- 1889. SIR JOHN NEILSON CUTHEBERTSON.
- 1891. REV. J. W. KING, M.A.
- 1891. D. C. M'VAIL, M.B.

## SENATUS ACADEMICUS.

- 15th Nov., 1859. Prof. W. Ramsay, M.A.
- 11th Dec., 1863. Prof. R. Buchanan, LL.D.
- 12th Dec., 1867. Prof. Allen Thomson, M.D.
- 11th Jan., 1872. Prof. Sir W. Thomson.
- 13th Jan., 1876. Prof. Cowan, M.D.
- 29th Jan., 1880. Prof. Berry, M.A., LL.D.
- 31st Jan., 1884. Prof. Dickson, D.D., LL.D.
- 9th Feb., 1888. Prof. Ramsay, LL.D.
- 28th Nov., 1889. Prof. Leishman, M.D.
- 28th Nov., 1889. SHERIFF BERRY, LL.D.
- 28th Nov., 1889. PROF. STEWART, D.D.
- 28th Nov., 1890. PROF. RAMSAY, LL.D.
- 30th Nov., 1891. PROF. LEISHMAN, M.D.

University Court or by any member of Senate, any decision of the Senate in the exercise of its powers of regulating and superintending the teaching and discipline of the University ; but decisions in matters of discipline can be reviewed only on appeal by a member of Senate or by a member of the University directly affected.

4. To appoint professors to chairs in University patronage ; to appoint examiners and lecturers ; and to recognize for graduation purposes the teaching of any college or individual teacher, under any regulations laid down by the Commissioners, which regulations, after the expiration of the powers of the Commissioners, may from time to time be modified or altered by the Universities Committee.

5. To define on application by any member of the Senate the nature and limits of a professor's duties under his commission, subject to appeal to the Universities Committee.

6. To take proceedings against a principal, professor, lecturer, assistant, examiner, or other University teacher.

7. To appoint from persons not being members of Senate one third of the members of any standing committee or committees charged, by ordinance of the Commissioners, with superintendence of University libraries or museums, and to review any decision of the Senate regarding the recommendations of such committee or committees.

8. To appoint committees of its own number, consisting of not less than five members, to report on any business entrusted to them or to carry out special instructions.

9. To elect the representative of the University on the General Medical Council, under the Medical Act, 1886.

10. After the expiration of the powers of the Commission to found new professorships with the approval of the Universities Committee. After such expiration no new professorship shall be founded otherwise.

The Court is intrusted with the patronage of several of the Professorships, appoints the Assistant Examiners for Degrees, and is a court of final appeal in any dispute which may arise in making up the Register of the General Council. Seven Members of the Court constitute a quorum. The Rector is President—in his absence, the Principal.

An abstract of the minutes of the meeting of the University Court during 1891-92 will be found in the Appendix.

## SENATUS ACADEMICUS.

The Senatus Academicus consists of the Principal and the whole of the Professors, and is entrusted with the ordinary superintendence and regulation of the teaching and discipline of the University. It appoints two-thirds of the members of any standing committee or committees charged by ordinance of the Commissioners with the immediate superintendence of University libraries or museums. It receives in the first instance all reports by such committee or committees, and, subject to the review of the University Court, it may confirm, modify, or reject the recommendations in such reports. The Principal, as President, has a deliberative and a casting vote. One-third of the Senate constitute a quorum.

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## GENERAL COUNCIL:

The General Council as constituted by the Scottish Universities Act, 1858 (21 and 22 Vict., chap. 83), by the Representation of the People (Scotland) Act, 1868 (31 and 32 Vict., chap. 84), and by the Universities Elections Amendment (Scotland) Act, 1881 (44 and 45 Vict., chap. 40), consists of the following *ex officio* Members, viz., the Chancellor, the Members of the University Court from and after their first election, and the Professors, and also of the following persons after registration, viz., all Masters of Arts of the University, and all persons on whom the University has, after Examination, conferred the Degree of Doctor of Medicine, or Doctor of Science, or Bachelor of Divinity, or Bachelor of Laws, or Bachelor of Medicine, or Bachelor of Science, or any other Degree instituted since 13th July, 1868; and also all persons who, previous to the 2nd August, 1861, had, as matriculated students, given regular attendance on the course of study in this University for four complete sessions, or such regular attendance for three complete sessions in this University, and regular attendance for one such complete session in any other Scottish University, the attendance for at least two of such sessions having been on the course of study in the Faculty of Arts.

Members of the Council must have their names enrolled in a book kept for the purpose by the Registrar. The Register of the Council is made up annually on the first day of December, for the year following, and includes the names of all members

entered on the Registration Book on or before the 30th day of November in each year. The Registration Fee, which is a payment for life, is 20s.

By section 16 of the Act 44 and 45 Vict., chap. 40, it is enacted that no person shall be allowed, after examination, to graduate at any of the Universities of Scotland until he shall have paid the Registration Fee; and it is further enacted that every person who has hitherto been, or who shall in the future become, *ex officio*, a member of the General Council of any of the Universities shall, on payment of the Registration Fee, be put and continued on the Register of Members of General Council of such University during his life, and shall be entitled to all the privileges of a Member of Council. The Act also provides that no person, subject to any legal incapacity, shall be entitled to vote at any parliamentary election, or exercise any other privilege as a member of the General Council.

The corrupt payment of any Registration Fee is punishable as bribery.

The Council meets twice every year—viz., on a Wednesday in October, and a Wednesday in April. In addition to these statutory meetings the Council may hold special meetings at the instance of the Chancellor, who shall convene such meetings on a requisition from a quorum of members, and the Council may adjourn any meeting, and may appoint committees to investigate into and report upon any matter remitted to them, or to carry out instructions given to them by the Council. The quorum of the General Council has been fixed by the Universities Commissioners at fifty, being ten for every thousand members, but this provision does not apply to the statutory half-yearly meetings. It is competent to the Council to take into consideration all questions affecting the well-being and prosperity of the University, and to make representations from time to time to the University Court, who shall return to the Council their deliverances thereon. The annual reports as to the statistics of attendance and as to the finances of the University, made by the University Court to the Secretary for Scotland, are to be laid by him before the General Council. To it are also to be communicated all new ordinances, or changes of existing ordinances, which may be proposed by the University Court.

The Chancellor and four of the Assessors in the University Court are elected by the Council. The manner in which these officers are elected is regulated by Ordinance of the Universities Commissioners. The President of the Council is the Chancellor; whom failing, the Rector; whom failing, the Principal; whom failing, the Senior Professor present; but in the election of Assessors the members of Senate may not take part.

The General Councils of the Universities of Glasgow and Aberdeen jointly return a representative to Parliament.

Number of Members of the General Council, 5094. For names of Members, see Appendix.

*Members of Parliament for the Universities of Glasgow and Aberdeen.*

- 1868. Right Hon. James Moncrieff, LL.D., Lord Advocate.
- 1869. Right Hon. Edward S. Gordon, LL.D., Dean of the Faculty of Advocates.
- 1876. Right Hon. William Watson, LL.D., Lord Advocate.
- 1880. JAMES ALEXANDER CAMPBELL, LL.D.

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STUDENTS' REPRESENTATIVE COUNCIL.

The Students' Representative Council consists of representatives from the different years of all the different Faculties in the University, and its aims are (1) to represent the Students in matters affecting their interests; (2) to afford a recognized means of communication between the Students and the University authorities; (3) to promote social and academic unity among the students. A Union Committee appointed by the Council completed in session 1889-90 the arrangements for opening the "Glasgow University Union." The Council has various Sub-Committees—an Inter-Universities Committee, a Magazine Committee, which conducts during the winter session the "Glasgow University Magazine" (published weekly), an Amusements Committee, and a Song Book Committee.

*Presidents of the Students' Representative Council.*

- 1885-86. R. M. Wenley, M.A.
- 1886-87. Gavin Lambie, M.A.
- 1887-88. C. E. Robertson, M.B., C.M.
- 1888-89. John H. Harley, M.A.
- 1889-90. Robert Bell, M.B., C.M.
- 1890-91. William Newlands.
- 1891-92. JOHN WHITE, M.A.

## S T U D E N T S .

Number of Students in the several Faculties, Session 1891-92 :—

In Arts (including Summer Matriculation of 1891, 3), -	985
Theology, -	85
Medicine (including Summer Matriculation of 1891, 112),	798
Law (including Summer Matriculation of 1891, 3), -	203
Arts and Medicine, -	44
Arts and Law, -	7
Arts and Theology, -	16
	2138

By ordinances No. 3 and No. 22 of the University Commissioners, every student is required at the beginning of each session, to matriculate by enrolling his name in the University Album, before joining any class.<sup>1</sup> The office of the Clerk of Senate will be open for the purpose of Matriculation on and after Saturday, 1st October. The Matriculation Fee is £1 for the Academical year; for the Summer Session, 10s.

Students are entitled, after matriculation, to the privilege of admission to the University Library, and, under certain conditions, to the Hunterian Museum; they are also entitled to vote for the Lord Rector. They are classified as students in Arts, Theology, Law, and Medicine, according to the nature of their studies; and they are likewise, for academical purposes, divided into Togati and Non-Togati—the students of the Humanity, Greek, Logic, Ethics, and Natural Philosophy classes being Togati or gown students, from being required to wear the ancient academical robe—a scarlet cloak.

Under the Non-Togati, or ungowned students, are comprehended all those who, having finished their course of instruction in Arts, are prosecuting their studies in the other Faculties, with a more immediate view to their intended professions; and it comprises also other persons resident in the city or its vicinity, who, though engaged in other avocations, are disposed to cultivate literary pursuits, or to extend their acquaintance with some

<sup>1</sup> The following addition to Ordinance No. 22, § xxviii., was approved by Her Majesty in Council, on 21st Feb., 1888: "Provided always that it shall be lawful for the Senatus Academicus, with the approval of the University Court, to sanction the admission of persons who are not matriculated students of the University to any course of instruction in the University not included in the course of study for Graduation in any Faculty, on payment to the General University Fund of an entrance fee of five shillings in addition to the authorized class fee; but such payment shall not entitle such persons to any other University privilege."

favourite branches of learning or science, by attending the lectures given at the University.

A distinction is also made between Public and Private students. The former are required to undergo examinations, and to read or perform exercises on the subjects treated of in the lectures,—and they only are allowed to reckon their sessions of study as a qualification for proceeding to degrees in the several Faculties.

Medical students have access, for the usual attendance in the wards and on the Clinical Lectures, to the Royal Infirmary situated in the Eastern part of the city, and to the Western Infirmary in the immediate vicinity of the University.

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### EXAMINERS FOR DEGREES.

By ordinance No. 14, § ix, of the Universities Commissioners of date 26th Jan., 1861, provision was made for the appointment by the University Court of three persons, not being Professors or Assistants to Professors, to be Examiners, along with the Professors, for the Degree of M.A., one in the Department of Classical Literature, another in that of Mental Philosophy, and the third in that of Mathematical Science, each of whom should receive annually the sum of £80, to be voted by Parliament. By ordinance No. 15, § xvi, of date 16th March, 1861, provision was made for the annual appointment by the University Court of three Assistant Examiners for Degrees in Medicine on a similar footing. But in accordance with an amendment on this ordinance made in 1875, the University Court now appoint fourteen Examiners. And by ordinance No. 75, § vi, three additional Examiners are appointed for the examination of candidates for the Degrees of B.L. and LL.B.<sup>1</sup>

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### ASSISTANTS TO PROFESSORS.

By ordinance No. 22 of the Universities Commissioners, of date 25th November, 1861, it was provided that an Assistant should be attached to each of the Professorships of Humanity, Greek, Mathematics, and Natural Philosophy, and two (a Teaching Assistant and a Laboratory Assistant) to the Professorship of Chemistry, each of whom should receive a salary of £100, to be annually voted by Parliament. By the same ordinance pro-

<sup>1</sup> See Appendix VI., pp. 492, 492. New Ordinance No. 13, General No. 8—Regulations as to Examinations, especially Sections XIV., XV., XVI., and XXI.

vision was made for the appointment of an Assistant to the Professor of Anatomy, who should receive a salary from the General University Fund, and of a Joint Assistant to the Professors of Materia Medica and Forensic Medicine, who should receive a salary of £50 by annual Parliamentary vote, instead of whom (by an alteration of the ordinance sanctioned by the Queen in Council) two assistants are now appointed, one to the Professor of Materia Medica and the other to the Professor of Forensic Medicine, each of whom receives a salary of £25. These Assistants are all appointed by the Professors, subject to the approval and control of the University Court. Besides the Assistants for whom provision is made by ordinance, there are attached to several of the classes other Assistants, appointed and paid by the Professors.

The Arnott and Thomson Demonstratorship, founded in 1875, is attached to the Chair of Natural Philosophy; the Muirhead Demonstratorship, founded in 1877, to the Chair of Institutes of Medicine; and the Baxter Demonstratorship in Geology, founded in 1889, to the Chair of Natural History.

There is also an Assistantship to the Professor of Engineering, which was founded in 1876 by the bequest of Mrs. Black, widow of the Rev. Dr. Black, Barony Church, Glasgow, with a salary of £140 or thereby, and designated in memory of her father, the Young Assistantship. The appointment is made by the University Court in conjunction with the Professor of Engineering.

#### UNIVERSITY CHAPEL.

The University Chapel is under the management of a Committee of Senate, of which the Principal is Convener.

Public Worship is celebrated every Sunday afternoon during the Winter Session at half-past Two o'clock, in the Bute Hall. The services are conducted by graduates of this University and other clergymen of various denominations.

#### UNIVERSITY CHAPEL CHOIR.

*Organist and Director, Mr. Montague Smith.*

Students with good voices and with some knowledge of music, who may be willing to give regular attendance at the weekly meetings for practice and at the Sunday afternoon

services, are cordially invited to join the Choir by sending in their names to the Organist, 9 Rosebery Terrace, on or before 1st November, 1892.

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#### GYMNASIUM.

This building was erected by public subscription, and fitted according to the most improved models, under the superintendence of the late Mr. Maclaren of Oxford, at a total cost of £2600, and was opened for the first time in January, 1872.

The instructor, Mr. Benson, carries out the system of Mr. Maclaren in its entirety. Students are carefully examined and measured on joining, and the exercises graduated according to strength and proficiency. Each student joins a class which meets at the same hour three days in the week.

Gentlemen not connected with the University are admitted to the use of the Gymnasium, and special evening classes are formed for their benefit.

*Fees.—1. For all Students:* One month, 5s. ; Two months, 8s. 6d. ; Three months, 12s. ; Six months, 20s. *2. For Non-Students:* the Quarter (*i.e.*, twice a week for three months, 15s. ; whole season (seven months), 35s.

The Oxford Silver Medal, presented annually by the late Mr. Maclaren, for competition among the students, is continued by the Gymnasium, and, at the competition in March, 1892, was gained by Laurence M. Gibson. The Bronze Medal for competition among the non-students is also continued.

Classes are also formed after Christmas to meet twice a week for instruction in boxing and fencing.

The Gymnasium is managed by a joint-committee of professors and students.

*Hon. Treasurer,* Matthew P. Fraser, LL.B., 91 West Regent Street, Glasgow.

*Hon. Secretary,* Fred. R. Stewart, 18 Annfield Terrace, W.

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#### EXAMINATION FOR CANDIDATES FOR THE ARMY.

This Examination, which the Secretary of State for War has accepted as equivalent to the Examination at the English and

Irish Universities for similar candidates, consists of three out of the seven Examinations required for the ordinary degree of M.A., but one subject must be taken out of each of the three separate Departments of Classical Literature, Mental Philosophy and Mathematics. Candidates must not be over twenty-one years of age. Examination Fee, £2 2s. This examination is intended only for students who have actually attended classes in the University.

## *II.—TABLE OF UNIVERSITY FEES.*

### I.—MATRICULATION FEES.

At the commencement of each Academical Year, which extends from 1st October to 30th September, and includes both Winter and Summer Sessions,	... ...	£1 0 0
At the commencement of each Summer Session, if the Student has not matriculated for the Academical Year then current,	... ... ... ...	0 10 0

### II.—ENTRANCE FEES (non-curriculum classes).

On admission each Session of persons who are not matriculated Students of the University to any course of instruction in the University not included in the course of Study for Graduation in any Faculty,	... ...	0 5 0
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### III.—ENROLMENT FEES (extra-mural lectures).<sup>1</sup>

At the commencement of each year of attendance on the lectures of private Teachers of Medicine, whose Lectures are recognized for Graduation in the University,	... ... ... ...	0 10 0
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### IV.—EXAMINATION FEES.<sup>2</sup>

For Degree of Master of Arts (M.A.)—		
On entering for Examination in Classical Department,	1 1 0	
" " " Philosophical " ,	1 1 0	
" " " Mathematical " ,	1 1 0	

#### For Certificate of Literate in Arts (L.A.)—

When all the subjects are taken at one Examination :		
On entering for that Examination, ... ...	2 2 0	
When the Examination is divided :		
On entering for Examination in Department first taken, ... ... ... ...	1 1 0	
On entering for Examination in Department taken next, ... ... ... ...	1 1 0	

<sup>1</sup> See Appendix VI., p. 498, New Ordinance for Degrees in Medicine, Section VIII.

<sup>2</sup> See Appendix VI., p. 492, New Ordinance as to Examinations, Section XII.

For Diploma for Teachers—						
When the Diploma is delivered, ... ... ...	£2	2	0			
For Examination for Candidates for the Army						
On entering for Examination, ... ... ...	2	2	0			
For Degree of Bachelor of Science (B.Sc.)—						
On first entering for Preliminary Examination, <sup>1</sup> ...	0	10	0			
On entering for First Examination in Natural Science,	1	11	6			
" " Second Examination	1	11	6			
In Engineering Science—£1 1s. each Session in which Candidate is examined, till he has paid ...	3	3	0			
For Certificate in Engineering Science—						
On entering for last subject of Examination, ...	1	1	0			
For Degree of Doctor of Science (D.Sc.)—						
On delivery of Diploma, ... ... ...	10	10	0			
For Degrees of Bachelor of Medicine (M.B.), and Master in Surgery (C.M.) <sup>1</sup> —						
On first entering for Examination in General Educa- tion, <sup>1</sup> ... ... ... ...	0	10	0			
On entering for First Professional Examination, <sup>2</sup> ...	5	5	0			
" Second " "	5	5	0			
" Third " "	5	5	0			
" Fourth " "	5	5	0			
For Degree of Doctor of Medicine (M.D.) <sup>2</sup> —						
On lodging Thesis, ... ... ...	15	8	0			
(This includes £10 3s. of Government Duty, etc.)						
For Diploma in Public Health—						
On entering for Examination, ... ... ...	5	5	0			
For Degree of Bachelor of Laws (LL.B.)—						
The fee for this Degree is ... ... ...	5	5	0			
Payable £1 1s. on each entry for Examination, and balance before Graduation.						
For Degree of Bachelor of Law (B.L.)—						
On first entering for Examination, ... ... ...	1	1	0			
" second " "	1	1	0			
" third " " (or before graduation)	1	1	0			
For Degree of Bachelor of Divinity (B.D.)—						
On entering for Examination in First Department,	1	11	6			
" " " Second " "	1	11	6			
For Degree of Doctor of Divinity (D.D.)—						
On delivery of Diploma :						
When the Graduate holds the Degrees of M.A. and B.D. of this University, ... ...	13	14	0			
When he holds the Degree of M.A. of this University, ... ... ...	16	17	0			
In other cases, ... ... ...	20	0	0			

<sup>1</sup> See Appendix VI., pp. 492, 493, New Ordinance as to Examinations, Section XII., XXI.  
See Appendix VI., p. 502, New Ordinance for Degrees in Medicine, Section XXIII.

## V.—LIBRARY FEES.

Each Member of the General Council, each year (commencing 15th October), in which he wishes use of Library, ...	...   ...   ...   ...   ...   ...	£0 10 6
Or,		
This may be compounded for by a single payment of	...   ...   ...   ...   ...   ...	5 5 0
Every Matriculated Student enrolled in a Class, who wishes use of Library, a deposit of	...   ...   ...   ...   ...   ...	1 0 0
Special Readers—each year in which the privilege is granted, ...	...   ...   ...   ...   ...   ...	0 10 6

## VI.—REGISTRATION FEE.

All Candidates proceeding to Graduation after Examination who are not already members of the General Council are required by the Act 44 and 45 Vict., Ch. 40, to pay the Registration Fee, with a view to their names being enrolled in the General Council. The fee is	...   ...   ...   ...   ...   ...	1 0 0
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*III.—SEPARATE FACULTIES AND CLASSES.*

WINTER SESSION 1892-93.

The University Classes will meet as follows, daily, unless otherwise specified :—

*I.—ARTS.*

TUESDAY, 25TH OCTOBER.

**CLASS FEES.**—The Fee for every curriculum class in the Faculty of Arts is £3 3s., with the exception of the Natural Philosophy Class, the Fee for which is £4 4s. The Fee for the Physical Laboratory is £5 5s.

<i>Classes.</i>	<i>Hours.</i>	<i>Professors.</i>
<i>Humanity, Junior,</i> . . .	8 a.m., . . . . .	MR. RAMSAY.
<i>Middle,</i> . . .	8 a.m. and 11 a.m., . . . . .	
<i>Senior,</i> . . .	9 a.m. and 1 p.m., . . . . .	
<i>Private(or Upper Senior),</i> . .	1 p.m., . . . . .	
<i>Greek, Junior, Tirones,</i> . .	12 noon, . . . . .	MR. MURRAY.
<i>Provectiores,</i> . . .	10 a.m., . . . . .	
<i>Senior,</i> . . .	8 a.m. and 2 p.m., . . . . .	
<i>Private,</i> . . .	2 p.m., . . . . .	
<i>Logic and Rhetoric,</i> . .	{ 9 a.m. daily, and 11 a.m. on Friday, . . . . .	MR. VEITCH.
<i>Higher Course,</i> . . .	1 p.m., Mon., Tues., and Th., . . .	
<i>Moral Philosophy,</i> . . .	8 a.m. daily, . . . . .	MR. CAIRD.
<i>Higher Course,</i> . . .	2 p.m., Mon., Wed., and Fri., . . .	
<i>Political Economy,</i> . . .	5.30 p.m., Tues., Wed., and Th., . . .	Mr. Smart.
<i>Natural Philosophy,</i> . . .	{ 9 a.m. daily, and 11. a.m. Tu. and Th., . . .	LORD KELVIN.
<i>Higher Course,</i> . . .	{ 12 noon, Mon., Wed. and Fri., . . .	
<i>Physical Laboratory,</i> . . .	10 a.m. to 4 p.m., . . . . .	DR. JACK.
<i>Mathematics, Lower Junior,</i> . .	9 a.m. or 10 a.m., . . . . .	
<i>Upper Junior,</i> . . .	12 noon or 9 a.m., . . . . .	
<i>Senior,</i> . . .	10 a.m., . . . . .	
<i>Upper Senior,</i> . . .	{ 11 a.m. Mon., Wed., Fri., 3 p.m. Tu. and Fri., . . .	DR. GRANT.
<i>Astronomy,</i> . . .	3 p.m. Tu. and Fri., . . . . .	
<i>Civil Engineering and Mechanics, Class I.,</i> . .	{ 8 a.m., Mon., Wed., and Fri., . . .	DR. BARR.
<i>II.,</i> . . .	8 a.m., Tues., Thurs., and Sat., . . .	
<i>IV.,</i> . . .	9 a.m. daily, ex. Sat., . . . . .	
<i>Engineering Drawing and Calculations,</i> . . .	{ 9 a.m. till 5 p.m. daily except Sat., . . . . .	

<i>Classes.</i>	<i>Hours.</i>	<i>Professors.</i>
<i>English Language and Literature,</i>	{ 4.30 p.m., daily, except Sat., . . . . .	MR. BRADLEY.
<i>Architectural Drawing and Materials Engineering, Junior,</i>	{ 11 a.m., Mon., Wed., and Fri., . . . . .	
<i>— Senior,</i>	{ 11 a.m., Mon., Tu., & Th., . . . . .	
<i>— Practical, Junior,</i>	{ 2 till 4 p.m., Tu., Wed., Th., and Fri., . . . . .	MR. BILES.
<i>— Senior,</i>	{ 2 till 4 p.m., Tu., Wed., Th., and Fri., . . . . .	

## II.—THEOLOGY.

TUESDAY, 1ST NOVEMBER.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Divinity, Senior,</i>	11 a.m.. . . . .	£3 3 0	
<i>— Junior,</i>	12 noon, . . . . .	3 3 0	DR. DICKSON.
<i>Hebrew, Junior,</i>	10 a.m., . . . . .	3 3 0	
<i>— Senior, . . . . .</i>	{ 9 a.m. daily, and (1 p.m. Tu. and Th., . . . . .	3 3 0	DR. ROBERTSON.
<i>— Private, . . . . .</i>	{ 1 p.m. Mon., Wed., ( and Fri., . . . . .	1 1 0	
<i>Ecclesiastical History, Junior,</i>	11 a.m., . . . . .	3 3 0	DR. STORY.
<i>— Senior,</i>	12 noon, . . . . .	3 3 0	
<i>Biblical Criticism,</i>	10 a.m., . . . . .	3 3 0	DR. STEWART.
<i>New Testament Greek,</i>	9 a.m., Tu., Wed., Th.,	2 2 0	

## III.—LAW.

TUESDAY, 25TH OCTOBER.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Practical Law, . . . . .</i>	8 a.m., . . . . .	£4 4 0 <sup>1</sup>	MR. MOODY STUART.
<i>Civil Law, . . . . .</i>	(No class in 1892-93), . . . . .	4 4 0 <sup>2</sup>	MR. MOIR.
<i>Conveyancing, . . . . .</i>	8 a.m., . . . . .	4 4 0 <sup>2</sup>	
<i>Forensic Medicine—in Summer (1893) (see under Faculty of Medicine), . . . . .</i>	. . . . .	3 3 0 <sup>1</sup>	DR. SIMPSON.
<i>Public Law (see p. 78), . . . . .</i>	. . . . .	3 3 0 <sup>3</sup>	MR. W. G. MILLER.
<i>Institutional Law and History (in Summer, 1894), . . . . .</i>	. . . . .	3 3 0	MR. R. T. YOUNGER.

NOTE.—The Winter Classes in the Faculty of Law will close on the 5th of April.

<sup>1</sup> Fee for a Second Session, £2 2s.; for a Third Session, £1 1s.

<sup>2</sup> Fee for a Second Session, £2 2s.

<sup>3</sup> Fee for a Second Session, £1 1s. 6d.

## IV.—MEDICINE.

TUESDAY, 18TH OCTOBER.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Natural History, Zoology,</i>	9 a.m. daily (Oct.),	£3 3 0 <sup>1</sup>	
<i>Geology,</i>	5.30 p.m. daily (Jan.),	3 3 0 <sup>1</sup>	
<i>Zoological Laboratory,</i>	{ 10 a.m. to 1 p.m. daily (Jan.),	3 3 0 <sup>1</sup>	DR. YOUNG.
<i>Botanical Laboratory,</i> (Jan., Feb., Mar.),	10 a.m.,	2 2 0	DR. BOWER.
<i>Clinical Medicine,</i>	. 9 a.m., .	(see p. 92)	{ DR. M'CALL ANDERSON and DR. GAIRDNER.
<i>Clinical Surgery,</i>	. 9 a.m., .	(see p. 91)	{ DR. GEORGE BUCHANAN and SIR G. H. B. MACLEOD.
<i>Chemistry,</i>	. 10 a.m., .	2 3 0 <sup>1</sup>	
<i>Chemical Laboratory,</i>	. 10 a.m. to 4 p.m.,	10 10 0	{ MR. FERGUSON.
<i>Junior Anatomy,</i>	. 2 p.m.,	3 3 0 <sup>2</sup>	
<i>Senior Anatomy,</i>	. 11 a.m.,	3 3 0 <sup>2</sup>	{ DR. CLELAND and Demonstrators.
<i>Practical Anatomy,</i>	. 9 a.m. to 4.45 p.m.,	3 3 0	
<i>Practice of Medicine,</i>	. 11 a.m.,	3 3 0 <sup>2</sup>	DR. GAIRDNER.
<i>Materia Medica,</i>	. 12 noon,	3 3 0 <sup>1</sup>	DR. CHARTERIS.
<i>Institutes of Medicine,</i>	. 12 noon,	3 3 0 <sup>1</sup>	{ DR. M'KENDRICK and Muirhead Demonstrator.
<i>Physiological Laboratory,</i>	. 10 a.m. to 4 p.m.,	—	
<i>Surgery,</i>	. 1 p.m.,	3 3 0 <sup>2</sup>	SIR G. H. B. MACLEOD.
<i>Forensic Medicine</i> (in Summer),	. .	3 3 0 <sup>2</sup>	DR. P. A. SIMPSON.
<i>Midwifery,</i>	. 2 p.m.,	3 3 0 <sup>2</sup>	DR. LEISHMAN.
<i>Diseases of Women</i> (in Summer),	. .	2 2 0	DR. LEISHMAN.
<i>Pathology,</i>	. 3 p.m. Mon., Wed., Fri.,	4 4 0 <sup>3</sup>	Dr. Joseph Coats.
<i>Lectures on the Eye</i> (in Summer),	. .	2 2 0	Dr. T. Reid.
<i>Insanity</i> (in Summer),	. .	2 2 0	Dr. Yellowlees.

NOTE.—The Winter Medical Classes will close on Friday, March 24.

## SUMMER SESSION, 1893.

During the SUMMER SESSION, which opens on MONDAY, April 24, the following courses will be delivered:—

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Botany</i> (College),	. 8 a.m., .	£3 3 2	
<i>Botanical Laboratory,</i>	. 9 a.m. to 4 p.m.,	2 2	{ DR. BOWER.
<i>Botanical Demonstrations,</i>	. . . . .	—	
<i>Clinical Medicine,</i>	. 9 a.m., .	(see p. 92)	{ DR. M'CALL ANDERSON and DR. GAIRDNER.
<i>Clinical Surgery,</i>	. 9 a.m., .	(see p. 91)	{ DR. GEORGE BUCHANAN and SIR G. H. B. MACLEOD.

<sup>1</sup> Fee for a Second Session, £2 2s.<sup>2</sup> Fee for a Second Session, £2 2s.; for a Third Session, £1 1s.<sup>3</sup> May be modified in the event of the passing of the New Ordinance for Degrees in Medicine.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Physics,</i>	9 a.m., . . .	£3 3	{ LORD KELVIN and Mr. M. Maclean.
<i>Practical Chemistry,</i>	9 to 11 a.m., . . .	3 3 <sup>1</sup>	
<i>Chemical Laboratory,</i>	10 a.m. to 4 p.m., . . .	5 5	{ MR. FERGUSON.
<i>Organic Chemistry,</i>	. . . . .	. . . . .	
<i>Anatomical Lectures,</i>	11 a.m., . . .	{ 2 2	{ DR. CLELAND and Demonstrators.
<i>Practical Anatomy,</i>	8 a.m. to 3 p.m., . . .	{ 3 3 <sup>1</sup>	{ DR. SIMPSON.
<i>Forensic Medicine,</i>	11 a.m., . . .	3 3 <sup>1</sup>	DR. YOUNG.
<i>Zoology, Lectures,<sup>2</sup></i>	12 noon, . . .	3 3 <sup>1</sup>	DR. YOUNG.
<i>Zoological Laboratory,</i>	10 a.m. to 1 p.m., . . .	3 3 <sup>1</sup>	
<i>Practical Materia Medica,</i>	12 noon, . . .	3 3 <sup>1</sup>	DR. CHARTERIS.
<i>Practical Physiology,<sup>3</sup></i>	12 noon, . . .	3 3 <sup>1</sup>	DR. M'KENDRICK and Muirhead Demonstrator.
<i>Physiological Laboratory,</i>	10 a.m. to 4 p.m., . . .	. . . . .	
<i>Practical Pathology,<sup>3</sup></i>	12 noon, . . .	. . . . .	{ Dr. Joseph Coats. 5 DR. GAIRDNER.
<i>Practice of Medicine,</i>	1 p.m. Tu. and Th., . . .	. . . . .	SIR G. H. B. MACLEOD.
<i>Operative Surgery,</i>	1 p.m. Mon., Wed., Fri., . . .	2 2	
<i>Diseases of Women,</i>	2 p.m. Tu., Th., Fri., . . .	2 2	DR. LEISHMAN.
<i>Lectures on the Eye,</i>	2 p.m. Tu. and Th., . . .	2 2	{ Dr. T. Reid. 6 Mr. R. T. Younger.
<i>Constitutional Law and History</i> (in Summer, 1894)	3	3	
<i>Insanity,</i>	{ 12 noon, Wed. (University), 10 a.m., Sat. (Gartnavel), —	{ 2 2	Dr. Yellowlees.

In addition to the University Courses, the following Hospitals and Dispensaries afford ample means for Practical Instruction in the various departments of Medicine and Surgery :—

**WESTERN INFIRMARY.**—This Hospital contains 400 beds for medical and surgical patients, including Wards for Skin Diseases, and one for diseases peculiar to females. *Physicians*—Prof. W. T. Gairdner, M.D., LL.D.; Prof. T. M'Call Anderson, M.D.; James Finlayson, M.D.; Gavin P. Tennent, M.D.; Prof. W. Leishman, M.D. (*Diseases of Women*). *Assistant Physicians*—Joseph Coats, M.D.; John Alexander, M.D. *Surgeons*—Prof. Sir George H. B. Macleod, M.D., LL.D.; Prof. George Buchanan, M.D., LL.D.; A. Patterson, M.D.; Hector C. Cameron, M.D. *Honorary Consulting Ophthalmic Surgeon*—T. Reid, M.D. *Assistant Surgeons*—J. C. Renton, M.D.; George T. Beatson, M.D. *Dispensary Physicians*—David Newman, M.D.; William G. Dun, M.D.; R. Stevenson

<sup>1</sup> Fee for a Second Session, £2 2s.

<sup>2</sup> This Course of Lectures in Zoology, as well as that given during the Winter Session, qualifies for graduation.

<sup>3</sup> After first Lecture, the Class will meet in three divisions, 8 to 9 a.m., 11 a.m. to 12 noon, and 12 noon to 1 p.m.

<sup>4</sup> The Fee for the combined Winter and Summer Course is £4 4s. See third note on preceding page.

<sup>5</sup> Open to all Matriculated Students of the University who have completed their Second Winter of Medical study. This course is supplementary to the Winter course, and takes up special subjects to be announced in the Summer bills.

<sup>6</sup> Includes fee for attendance at Eye Infirmary.

Thomson, M.B.; George Dickson, M.D.; C. O. Hawthorne, M.B.; James Hinshelwood, M.D. *Extra Dispensary Physicians*—John H. Carslaw, M.B.; R. M. Buchanan, M.B. *Dispensary Physicians for Diseases of Women*—W. L. Reid, M.D.; Robert Kirk, M.D.; Murdoch Cameron, M.D. *Dispensary Surgeons*—T. K. Dalziel, M.D.; Duncan Macartney, M.B.; James H. Nicoll, M.B. *Extra Dispensary Surgeon*—Henry Rutherford, M.B. *Dispensary Surgeon for Diseases of the Ear*—Thomas Barr, M.D. *Dispensary Surgeon for Diseases of the Throat*—J. Walker Downie, M.D. *Surgeon Dentist*—W. D. Woodburn, L.D.S. *Pathologist*—Joseph Coats, M.D. *Vaccinator*—William MacLennan, M.B. *Medical Superintendent*—Donald J. Mackintosh, M.B. *Lady Superintendent*—Miss E. Clyde. *Secretary*—Henry Johnston, 125 Buchanan Street. The hour of visit is 9 A.M. The Dispensary for Out-Patients is open daily at 2 P.M. *Vaccination*—Mondays and Thursdays at 12 noon. The station is recognized by the Local Government Board. *Fee*, £1 1s. According to the present arrangement admission to the practice of this Infirmary is subject to the following regulations:—

1. That every student paying at the commencement of his First Year a Fee of £10 10s., will be entitled to admission to the Infirmary, and also to attend Courses of Clinical Instruction during the winter and summer of the said year.
2. That every student who has thus paid £10 10s., and shall at the commencement of his Second Year pay a further Fee of £10 10s., will have the privilege of admission to the Infirmary, and to the several courses of Clinical Instruction during his lifetime.
3. That the Fee for Hospital Attendance and Clinical Instruction for Six Months only be £7 7s.
4. That the Fee for Hospital Attendance and Clinical Instruction for Three Months only be £4 4s.
5. Any student who shall have paid Fees to the amount of £21 or upwards, in the payments as stated above, shall be entitled to a Ticket, admitting him to the Infirmary, and to the Clinical Instruction during his lifetime.
6. There shall be two courses of Clinical Instruction—the one in the Winter, and the other in the Summer session.

Students who have taken the Hospital Ticket previous to 1st October, 1876, will continue at the scale of Fees then in use,

but an additional payment of £10 10s. will make them perpetual students of the Hospital, and admit also to the Clinical Classes under the above rules.

Students who have completed their Clinical Course elsewhere shall be permitted to enter for a six months' course of the *Hospital only*, on payment of a Fee of £2 2s.

OUT-DOOR VISITATION.—Senior Students who have passed their Third Professional Examination are permitted to visit the sick poor in the Anderston district, under the supervision of certain Professors of the University and assistants.

ROYAL INFIRMARY.—Hour of Visit—Surgical, 9 A.M.; Medical, 10 A.M. Clinical Lectures given by the Physicians and Surgeons. Fees for Hospital attendance and Clinical Instruction—same as in the Western Infirmary, excepting fee for six months, which is £6 6s. in the Royal Infirmary.

EYE INFIRMARY, 170 Berkeley Street.—Hour of Visit, 1 P.M. daily. Fee for six months, £2 2s.; free to those attending, or who have attended, the Lectures on the Eye delivered in the University.

INSANITY.—During the Summer Session Dr. Yellowlees gives in the University a Course of Lectures on Insanity at 12 noon on Wednesdays, and Clinical Instruction at the Glasgow Royal Asylum, Gartnavel, at 10 A.M. on Saturdays. Fee for the combined Course, £2 2s.

There are also Dispensaries for Diseases of the Skin and Ear, and Clinical Instruction in Fevers is given at the Belvidere Hospital.

### FACULTIES IN THE UNIVERSITY.

The whole classes of the University are divided into four Faculties—Arts; Divinity; Law; Medicine.

#### I.—FACULTY OF ARTS.<sup>1</sup>

The Faculty of Arts embraces the classes of Humanity, Greek, Logic and Rhetoric, Moral Philosophy, Natural Philosophy, Mathematics, and English Language and Literature, on all of which attendance is required for a degree in Arts,<sup>2</sup> and

<sup>1</sup> Should the New Ordinance for Degrees in Arts come into operation on 1st October, 1892, some modification in the arrangements of some of the classes may be found necessary.

<sup>2</sup> See Appendix VI., p. 480, New Ordinance for Degrees in Arts, Sections VI.. IX.

also the classes of Practical Astronomy, Civil Engineering and Mechanics, and Naval Architecture.

### HUMANITY.

The original foundation of this Professorship is not extant; but it appears from the records of the College that it must have been instituted previous to the year 1637. The Professor is elected by the University Court.

#### *Professors from the year 1706.*

1706. Andrew Rosse.	1773. Wm. Richardson, M.A.
1735. George Rosse.	1815. Josiah Walker, M.A.
1754. George Muirhead	1831 William Ramsay, M.A.
	1863. GEORGE G. RAMSAY, M.A., LL.D.

The Humanity Class<sup>1</sup> consists of four divisions—*Junior*, *Middle*, *Senior*, and *Private* (or *Upper Senior*) *Class*, which latter Class all members of the ordinary Senior Class have the option of attending. Students not requiring a Public Certificate for the Degree or other purpose may attend as Private Students. Private Students attend the Class without taking part in the Class work.

In all the Classes the Students prepare certain work prescribed, and are examined orally every day. In the Private Class the business is conducted largely by Lectures and Prelections delivered by the Professor.

#### *Junior Class.*

The JUNIOR CLASS meets daily from 8 to 9 A.M. on every week day except Saturday. The subjects of study are: Ovid, Tibullus, Virgil, Cicero, Livy—Latin Grammar—Prosody—Easy Latin Prose Composition.

#### *Middle Class.*

The MIDDLE CLASS meets daily from 8 to 9 A.M., and from 11 A.M. to 12. The subjects read are: Ovid, Tibullus and Propertius, Virgil, Horace, Cicero, Livy, together with Latin Prose Composition—Grammar—Prosody—History and Antiquities.

*Students entering the Middle Latin Class must have a good knowledge of Latin Grammar, and be able to translate at sight simple passages from Latin into English, and both simple and compound sentences from English into Latin.* All students

<sup>1</sup> See first note on page 49.

desiring to enter the Junior or Middle Latin Class for the first time in November, 1892, will be examined in the above subjects on Thursday, 27th October, at 7.45 A.M., and they will be placed in the Middle or Junior Class, respectively, in accordance with the result of that Examination. A specimen of the paper will be found at the end of the Calendar.

#### *Senior Class.*

The SENIOR CLASS meets daily from 9 to 10 A.M., and all students attending the Senior Class have the option also of attending the Private (or Upper Senior) Class from 1 to 2 P.M. The subjects of study in the class at 9 A.M. are :—The works of Horace—Propertius—Virgil—Cicero—Sallust—Livy—Tacitus

Latin Prose Composition—Latin Prosody—Roman History and Antiquities. The students are examined on paper at intervals during the session. Students may enrol in the Senior Class for Latin Prose only.

All students who propose to join the Senior Class are examined on paper, at the commencement of the session, to test their fitness for the Class. The examination for 1892-93 will be held on Thursday, 27th October, at 9 A.M. The paper will include (*a*) Sentences or passages for translation into Latin. Students will be examined in Ramsay's Latin Prose Composition, Vol. I. (*b*) Translation. Passages will be set from Horace, *Odes*, Book I., and from Livy, Book I., Cap. 1-30. Students who have attended the Junior or Middle Class in their first Session are required to satisfy the Professor, in the examination prescribed above, that they are fit to enter the Class.

#### *Private or Upper Senior Class, 1 p.m.*

This Class is an Honour or Third-year Class, at which advanced work is read. All students who attend the 9 A.M. Class attend at 1 P.M. also, unless exempted for special reasons. Students who attend daily at 1 P.M., and do all the work of the Class, receive tickets qualifying for the M.A. Degree.

One subject is read and lectured upon on Mondays and Fridays; another on Tuesdays and Thursdays; on Wednesdays special classes in Latin prose are held, at which all students of the 9 A.M. Class attend. Students are allowed to attend as Private Students, i.e., as listeners only, without doing any of

the work of the Class; but in that case they do not receive tickets qualifying for the Degree.

Students wishing to do Latin Prose, for the Degree or other purposes, may attend one of the special Sections for Latin Prose which meet weekly at 1 P.M. on Wednesdays.

The students are examined orally and on paper at intervals during the Session, both in the subjects read in the Class and on voluntary subjects specially prescribed. A course of five sessions embraces Lectures and Prelections on Plautus—Terence—Lucretius—Catullus—Propertius—Virgil—Persius—Juvenal—Martial—Tacitus.

In all the classes, written exercises in Latin prose are prescribed regularly, and in the Private Class exercises in Latin or English Verse may be prescribed also.

The subjects read in the Session 1892-93 will be as follows:—

1. PRIVATE AND SENIOR CLASS, at 1 P.M.—Lucretius; Juvenal; Horace, *Epistles* II. and *Ars Poetica*; Virgil, *Ae. VIII.*

2. SENIOR CLASS, AT 9 A.M.—Horace, *Odes*; Cicero, *Divinitio* and *In Verrem* I.; Tacitus, *Annals* I.: Antiquities and Prosody.

3. MIDDLE CLASS, AT 8 A.M.—Livy, XXI. (Capes); Virgil, *Georgic* I. (Sidgwick).

AT 11 A.M.—Selections from Tibullus and Propertius (Ramsay); Cicero, *Pro Lege Manilia* (Wilkins); Virgil, *Ae. IV.* (Sidgwick).

4. JUNIOR CLASS, AT 8 A.M.—Virgil *Aeneid* V. (Sidgwick); Cicero, *Pro Murena*, (Heitland); Ramsay's Latin Prose Composition, Vol. I., and Ramsay's Antiquities.

### GREEK.

This Professorship was founded by the College in or about the year 1581. The Professor is elected by the University Court.

*Professors from the year 1704.*

1704. A. Dunlop, LL.D.	1838. Edmund L. Lushington,
1746. James Moor, LL.D.	LL.D.
1774. John Young, M.A.	1875. R. C. Jebb, D.C.L., Litt. D.,
1821. Sir Daniel K. Sand-	LL.D.
ford, M.A.	
	1889. G. G. A. MURRAY, B.A.

The Greek Class<sup>1</sup> consists of three divisions, the Senior, the Middle, and the Junior. Students not requiring a public Certificate may attend as Private Students, *i.e.* without doing the work of the class.

In all the Classes a certain piece of work is prescribed every day, and the class examined orally upon it. Besides this, at least twice in the session all the Classes are examined on paper on their whole work.

Students are placed in the several Classes in accordance with the result of an Examination held at the opening of the session. This Examination will be held on Friday, 28th October, 1892. Accurate knowledge of *Rutherford's Grammar, Accidence, Part I.*, and the Elements of Syntax will be required. A piece of unseen translation will also be set. Candidates may profess for examination the first book of Xenophon's *Memorabilia*.

In the case of students who have already attended a Greek Class in the University, a First or Second Class Certificate in the Upper Middle, or a First Class Certificate in the Lower Middle, qualifies for the Senior without further examination.

A Second or Third Class Certificate in the Lower Middle, or a First Class Certificate in the Junior, qualifies for the Upper Middle. The Professor will also accept as qualifying for the Upper Middle, a certain standard below the Pass in the University Preliminary Examination.<sup>2</sup>

All students should possess the following books: *Ancient Atlas*; *Greek Lexicon*, Liddell & Scott (large or intermediate edition); *Primer of Greek Literature*, Jebb; *Greek Grammar*, Rutherford.

<sup>1</sup> See first note on page 49.

<sup>2</sup> See Appendix VI., pp. 486, 484. New Ordinance for Degrees in Arts, Sections VI., XXVIII.

## JUNIOR CLASS ('TIRONES').

The Junior Class meets at 12 noon every week day except Saturday.

*All students before joining the Class should prepare the above mentioned Grammar to the end of the Verb.*

The Class reads extracts from Xenophon and other Greek writers. There are also written exercises in Greek Composition, and examinations in Grammar and the elements of Philology.

## MIDDLE CLASS ('PROVECTIORES').

The Middle Class meets at 10 A.M. on every week day except Saturday.

The Class usually reads the easier Attic authors, including Lucian. Written exercises in Greek Composition form part of the work.

For teaching purposes the Class is divided into two sections, called 'Upper' and 'Lower' Middle respectively.

## SENIOR CLASS.

The Senior Class meets at 8 A.M. and certain members of it at 2 P.M. on every week day except Saturday.

## (1) 8 A.M.

At 8 A.M. the Class reads various Greek authors, and is examined orally every day. Composition is done at this hour.

## (2) 2 P.M. ('SENIOR AND PRIVATE').

At 2 P.M. more advanced work is done : a certain portion of the work bears specially upon the Degree, both for Pass and for Honours. Members of the Senior Class are recommended to attend, but are not in any way bound to do so. Students not requiring a Public Certificate may attend as Private Students, *i.e.* without doing the work of the Class.

Greek Composition forms part of the work.

There is less oral examination in the teaching of this Class, the Professor generally giving lectures or prelections.

*Subjects for Session 1892-93.*

JUNIOR CLASS.—Rutherford's *Greek Grammar*; Sidgwick's *First Greek Writer*. Farnell's *Tales from Herodotus*; Euripides, *Hecuba* (Bond).

LOWER MIDDLE CLASS.—Xenophon, *Hiero* (Holden) ; Euripides, *Hecuba* (Bond) ; Sidgwick's *First Greek Writer*.

UPPER MIDDLE CLASS.—Xenophon, *Hiero* (Holden) ; Euripides, *Iphigeneia in Tauris* (England) ; Plato, *Euthyphron* (Graves) ; Composition and Translation at Sight.

SENIOR CLASS.—Thucydides IV. (Graves) ; Sophocles, *Antigone* (d'Ooge, published by E. Arnold) ; Herodotus VI. (Strachan) ; Composition and Translation at Sight ; Sidgwick's *Greek Prose*.

SENIOR AND PRIVATE CLASS.—Homer, Lectures with especial reference to *Odyssey* IX. and *Iliad* XVI. and XXII. ; Jebb's *Introduction to Homer* ; Aristotle, *Poetics* ; Aristophanes, *Frogs* ; Historical Lectures on Thucydides ; Composition.

N.B.—*Strictly speaking, no student can proceed to his Degree in Arts without a session in the Senior Greek Class. When, however, a student is prevented from attending at 8 a.m. he may obtain a Senior Certificate by attending at 2 p.m. provided that he passes both the written examinations. Under special circumstances a student is allowed to count a session of the Middle Class as equivalent to a session of the Senior, provided that it is impossible for him to attend the Senior, and that by his work during the session and in both the examinations he satisfies the Professor that he is worthy of a Senior Certificate.*

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## LOGIC AND RHETORIC.

This Professorship is one of those founded in the charter of *Nova Erectio*, in 1577. The Professor is elected by the University Court.

### *Professors from the year 1727.*

1727. John Loudon.

1751. Adam Smith, LL.D.	1787 <sup>1</sup> . George Jardine, M.A.
1752. James Clow.	1827 <sup>2</sup> . Robert Buchanan, LL.D.
1864. JOHN VEITCH, LL.D.	

<sup>1</sup> Mr. Jardine was assistant and successor to Mr. Clow from 2nd June, 1774.

<sup>2</sup> Mr. Buchanan was assistant and successor to Mr. Jardine from 1st October, 1824.

This Class meets daily, on five days of the week, from 9 to 10 A.M. for Lecture, and on Friday, from 11 to 12 noon, for Oral Examination.

The Course of Lectures is so arranged as to embrace the following subjects in each session :—

I. PSYCHOLOGY AND METAPHYSICS—under which is given an account of the Faculties and Capacities of the Mind, and of the General Nature, Limits and Objects of Human Knowledge.

II. LOGIC.—(A) Pure or Formal Logic, embracing the Doctrine of Notions (Terms), Propositions, Reasonings, Fallacies. (B) Applied or Material Logic, embracing the Theory and Processes of Science (Observation, Induction, Deduction), and the General Laws of Evidence. Instruction in Logic is conveyed partly by means of a text-book, viz., *Institutes of Logic*.

III. RHETORIC.—A portion of the course is devoted to the Principles of Rhetorical and Oratorical Excellence.

Exercises and Essays on subjects connected with the course are prescribed to the students; and General Written Examinations take place at regular intervals during the currency of the session.

The Class is annually arranged into two divisions, Senior and Junior, according to the age of the students; and prizes are assigned, in each of the divisions, to those who have most distinguished themselves by diligence, proficiency, and ability in the exercises and examinations of the session.

An advanced Class for the HIGHER METAPHYSICS—embracing the subjects prescribed for Honours in Mental Philosophy, will meet three times a week, on Mondays, Tuesdays, and Thursdays, from 1 to 2 P.M.

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### MORAL PHILOSOPHY.

This Professorship was founded by the charter of *Nova Erectio*, in 1577. The Professor is elected by the University Court.

*Professors from the year 1727.*

1727. Gershom Carmichael.	1764. Thomas Reid, D.D.
1730. F. Hutcheson, LL.D.	1796 <sup>1</sup> . Archd. Arthur, M.A.
1746. Thomas Craigie.	1797. James Mylne, M.A.
1752. Adam Smith, LL.D.	1839. William Fleming, D.D.
	1866. EDWARD CAIRD, D.C.L., LL.D.

The Moral Philosophy Class meets at 8 A.M. on five days of the week, and the more advanced class, which is intended mainly to prepare students for the Degree with Honours, on Monday, Wednesday, and Friday, at 2 P.M.

In the Lectures, Moral Philosophy is treated both historically and systematically. One of the most important works on Moral Philosophy is usually selected in each year as the text-book (the work selected to be announced at the beginning of the session); and in connection with it Lectures will be given on Metaphysics and Psychology as the basis of morals, on the principles of Jurisprudence and Social Ethics, and on the relations of Ethics to Theology. An account will also be given of the historical development of Morals, and of the main ancient and modern theories on ethical and social subjects.

In the Higher Moral Philosophy Class Mr. Caird will lecture on the subjects for the Degree with Honours; and in particular in Session 1892-93 on the Principles of Metaphysics and Psychology, with special reference to their bearing upon Ethics. Part of the lectures will be devoted to the history of Modern Philosophy, especially in the Post-Kantian period.

In the Political Economy Class Mr. Smart will deliver a course of 50 lectures on Tuesdays, Wednesdays, and Thursdays, beginning on Thursday, 27th October. Fee, £1 11s. 6d.

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*NATURAL PHILOSOPHY.*

This Professorship was founded by the charter of *Nova Erectio*, in 1577; and the Professor was confined to the depart-

<sup>1</sup> Mr. Arthur was assistant and successor to Dr. Reid from 22nd May, 1780.

ment of Natural Philosophy in 1727. The Professor is elected by the University Court.

*Professors from the year 1727.*

1727. Robert Dick.

1751. Robert Dick, M.D.	1796. James Brown, LL.D.
1757. John Anderson, M.A.	1803. W. Meikleham, LL.D.
	1846. LORD KELVIN, D.C.L., LL.D., P.R.S.

The Natural Philosophy Class meets daily at 9 A.M., and at 11 A.M. or 12 noon.

The first hour is chiefly spent in statements of Principles, descriptions of Results of Observation, and experimental Illustrations. The second hour is devoted to Mathematical Demonstrations and Exercises, and Examinations on the Elementary parts of the course, on Tuesdays and Thursdays at 11 A.M.; and to a higher Mathematical Course on Mondays, Wednesdays, and Fridays, at 12 o'clock.

The text-books used are—

“A Treatise on Natural Philosophy,” by Professors Sir William Thomson and P. G. Tait (Cambridge University Press); “Elements of Natural Philosophy,” by the same authors (Cambridge University Press); “Dynamics and Hydrostatics,” by J. T. Bottomley (W. Collins & Sons); “Heat” and “Elasticity,” vol. iii. of Sir W. Thomson’s “Mathematical and Physical Papers” (Cambridge University Press); Deschanel’s “Experimental Physics,” translated by Everett; “Physical Optics,” by R. T. Glazebrook (Longmans & Co.); “Absolute Measurements in Electricity and Magnetism,” by A. Gray (Macmillan & Co.); “Mathematical Tables,” by J. T. Bottomley (Macmillan & Co.); “Exercises in Natural Philosophy,” by M. Maclean (James MacLehose & Sons).

The more elementary of the treatises by Thomson and Tait, along with Dynamics and Hydrostatics by Bottomley, will be used for the work required of all students of Natural Philosophy in the regular curriculum. The whole, or certain specified parts of the larger treatise, will be prescribed in connection with voluntary examinations and exercises in the class, and

for candidates for the degree of M.A. with honours. Students who desire to undertake these higher parts of the business of the Class ought to be well prepared on all the subjects of the Senior Mathematical Class.

The Laboratory in connection with the Class is open daily from 10 A.M. to 4 P.M. for Experimental Exercises and Investigations, under the direction of the Professor and his official Assistant, and the Demonstrator in Experimental Physics.

The main divisions of the course are—

- (1) Abstract Dynamics (including Elements of Physical Astronomy); (2) Properties of Matter; (3) Thermodynamics; 4) Illustration.

Illustration is conducted partly through examples and calculations; partly by experiment.

A programme of the subjects that will be taken up, as far as time permits, during the Session 1892-93, will be published before the commencement of the Session, and may be had on application at the Natural Philosophy Class-room.

A Summer Course of Lectures on Physics has been instituted for medical students. A certificate of attendance on the course must be produced by each student when he enters his name for the First Professional Examination.

For the Arnott and Thomson Demonstratorship in Experimental Physics, see p. 92.

### MATHEMATICS.

This Professorship, long suppressed for want of funds, was revived by an Act of Faculty in 1691. The Professor is appointed by the University Court.

*Professors from the year 1691.*

1691. George Sinclair.

1699. Robert Sinclair, M.D.	1796 <sup>1</sup> . James Millar, M.A.
1711. Robert Simson, M.D.	1832. James Thomson, LL.D.
1761. James Williamson, D.D.	1849. Hugh Blackburn, LL.D.
1879. WILLIAM JACK, LL.D.	

<sup>1</sup> Mr. Millar was assistant and successor to Dr. Williamson from 26th Feb., 1789.

*Lower Junior Class,*

(Or FIRST YEAR'S COURSE.)<sup>1</sup> Subjects: *Euclid* and *Algebra*, both from the beginning. Two parallel subdivisions of the Class meet daily (except on Saturdays), one from 9 to 10, and one from 10 to 11.

*Upper Junior Class,*

(Or SECOND YEAR'S COURSE), for Students who have attended the first year's course, or who have otherwise acquired a knowledge of Euclid, Books I., II., III., IV., and of Algebra, as represented by the first twenty-two Chapters (Chaps. XIV., XV., XIX. excepted) of Todhunter's larger text-book. Subjects: *Euclid*, Books V., VI., and XI., more advanced *Algebra* and the elements of transversals, *Elements of Trigonometry*. Two parallel subdivisions of the Class meet daily (except on Saturdays), one from 9 to 10, and one from 12 to 1. The latter is subdivided into two sections according to acuirements ascertained by an examination in the first fortnight of the session.

*Senior Class,*

(Or THIRD YEAR'S COURSE.) Subjects: *Plane Trigonometry*, *Geometrical and Analytical Conics*, *Differential and Elements of Integral Calculus*. The Senior Class meets from 10 to 11 daily, except on Saturdays.

*Upper Senior Class.*

Subjects: *Integral Calculus*, *Spherical Trigonometry*, *Geometry of Three Dimensions*, *Differential Equations*, *Finite Differences*. The Class meets at 11-12 on Mondays, Wednesdays, and Fridays.

Attendance on the Mathematical Classes, for not less than two Winter Sessions, one of which must be on either the Upper Junior or the Senior Class, is required for the degree of M.A., "unless the candidate at the time of his entrance to the University shall satisfy the Professors in the Faculty of Arts, on examination, that he is qualified to attend the Senior Class," in which case attendance on the Senior Class for one session is sufficient.<sup>2</sup>

<sup>1</sup> See first note on page 49.

<sup>2</sup> See Appendix VI., p. 480, New Ordinance for Degrees in Arts, Sections VI.-IX.

For the "Lorimer," the "Metcalfe," and the "Muir" Bursaries in Mathematics, see under Bursaries; and for the Cunningham Gold Medal, see under Prizes.

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### *PRACTICAL ASTRONOMY.*

The Professorship of Practical Astronomy was founded in the year 1760, conjointly with the office of Observer in the University of Glasgow, and is in the gift of the Crown.

#### *Professors.*

1760.	Alexander Wilson, LL.D.
1784 <sup>1</sup> .	Patrick Wilson, LL.D.   1803. James Cooper, D.D.
1799.	W. Meikleham, LL.D.   1836. John P. Nichol, LL.D.
1859.	ROBERT GRANT, LL.D., F.R.S.

An Observatory has always existed in connection with this Chair. The present Observatory is situated on an eminence in the immediate vicinity of the University buildings. The principal instruments are :—A Meridian Circle of three feet six inches diameter, by Ertel of Munich; and an equatorially-mounted Refractor, of nine inches aperture, and thirteen feet focal length, by Cooke of York. The acquisition of the latter instrument is mainly due to the liberality of a few private gentlemen chiefly residing in Glasgow.

Dr. Wilson, the second occupant of the Chair, bequeathed to the University the sum of one thousand pounds, upon the condition that the interest thereof should be applied to the purchase of instruments and books for the use of the Professor of Astronomy and the students attending his prelections.

The Professor of Practical Astronomy is chiefly occupied in directing the operations of the Observatory; but he also delivers a short Course of Lectures on Astronomy<sup>2</sup> at the College during the session, and gives expositions on instruments and methods of observation at the Observatory. The fee for the Course is £1 1s.

<sup>1</sup> Dr. P. Wilson was assistant to his father from 5th June, 1782.

<sup>2</sup> See first note on page 46.

*CIVIL ENGINEERING AND MECHANICS.*

The Professorship of Civil Engineering and Mechanics was instituted by Queen Victoria in 1840, and is in the gift of the Crown. The emoluments of the Chair were increased in 1872 by a supplemental endowment<sup>1</sup> by Mrs. Elder, widow of Mr. John Elder, engineer and shipbuilder, Glasgow; and more recently, in 1876, an Assistantship was founded by bequest of Mrs. Black, widow of the Rev. Dr. Black, Barony Church, Glasgow.<sup>2</sup>

*Professors.*

- |       |   |
|-------|---|
| 1840. | Lewis D. B. Gordon, C.E.                  |
| 1855. | William J. Macquorn Rankine, C.E., LL.D.  |
| 1873. | James Thomson, C.E., LL.D., D.Sc., F.R.S. |
| 1889. | ARCHIBALD BARR, D.Sc., M.Inst.C.E.        |

The Courses of the Professor of Engineering extend throughout the winter session, that is from 25th October till 10th April. They comprise Lectures on Engineering Principles and Practice, Instruction in Geometrical Drawing and in Engineering Drawing and Calculations, and visits to Engineering Works and Manufactories.

These Courses are designed primarily to suit students who intend to devote themselves to Civil, Mechanical, Electrical, or Mining Engineering, but the work of the Classes will be found of direct practical utility to architects and to men who are engaged in any occupations connected with manufactures.

The work of the Classes is not intended in any way to supersede the usual requirements of pupilage or apprenticeship in Engineering, but to enable the Engineer to gain such a knowledge of the principles underlying his profession or trade as he cannot acquire by only working in the office, in the field, or in the workshop. The Classes may be attended either before or after pupilage or apprenticeship, or concurrently therewith.

Four Courses of Lectures are arranged for, three of which will be delivered in each session.

To suit the convenience of men engaged in offices and works, two of the Classes will be held at 8 A.M., and the advanced course will be held at 9 A.M.

<sup>1</sup> The annual income of a sum of £5000.

<sup>2</sup> The salary for the Young Assistantship thus founded is £140, or thereby.

**CLASS I.—THE MATERIALS OF CONSTRUCTION AND THE ELEMENTS OF APPLIED MECHANICS.**—Mondays, Wednesdays, and Fridays, at 8 a.m.—The Lectures will treat of the Origin, Preparation, Properties and Uses of the Chief Constructive Materials, especially of Cast Iron, Wrought Iron and Steel, Brass and other Alloys, Timber, Building Stones, Cements and Concrete, and of the more Elementary Principles of Mechanics in their application to problems connected with Engineering Structures and Machines.

**CLASS II.—SURVEYING, LEVELLING, AND SETTING-OUT OF WORKS.**—Tuesdays, Thursdays, and Saturdays, at 8 a.m. Surveying with the Chain and with Angular Instruments; Telemetry; Levelling; the Optical and Mechanical Principles, Tests, and Adjustments of Surveying and Levelling Instruments; Setting-out of Works, especially Setting-out of Railways; Mensuration of Areas of Land and of Volumes in Earthworks, etc. The Lectures will treat for the most part of those portions of the subject which are not readily learned in ordinary field and office practice.

**CLASS III. PRIME MOVERS AND THE MECHANICS OF MACHINERY.**—This Class will not be held during the present session. It will be held in alternate years with Class II., on Tuesdays, Thursdays, and Saturdays, at 8 a.m. The Lectures treat of the Theory of Steam and Gas Engines, the structural details of Boilers and Engines, the Mechanics of Machinery, the Elements of Machine Design, the Transmission of Power, and Friction and Lubrication in Machines. Attendance on this Class should be preceded by attendance on Class I. in the case of students entering with no knowledge of Mechanics.

**CLASS IV.—HIGHER APPLIED MECHANICS AND HYDRAULICS.**—Daily, except Saturday, at 9 a.m. The Lectures treat of the Strength and Elasticity of Materials, the Strength and Stiffness of Beams, Girders, Columns, Framed Structures, &c.; Hydraulics and Hydraulic Appliances, including the Gauging of Water, the Flow of Water in Pipes, and the Principles of Water Wheels, Turbines, and Centrifugal Pumps.

Fee for each of the first and second courses taken,	£	3	3	0
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Fee for a third course,	-	-	-	-	2	2	0
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Fee for a fourth course,	-	-	-	-	1	1	0
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**ENGINEERING DRAWING AND CALCULATIONS.**—The drawing class room is open daily, except Saturday, from 9 A.M. till 5 P.M. Each student will be required to attend six hours per week (at times to be arranged at the commencement of the session), and will be expected to devote extra time to the performance of work. The work of the Classes will comprise Lectures and Practice in Civil and Mechanical Engineering Drawing, Descriptive Geometry, and Graphical Statics, and special times will be set apart for the performance of graphical work and calculations in connection with the lecture courses.

The scale of Fees is the same as that for the Lecture Courses.

**Recommendation.**—It is strongly recommended that students of Engineering should, if possible, get themselves engaged, for two or three summers within the period of their attendance in the University, in engineering or architectural service, in offices, or in workshops, or on works such as railways, water works, or harbour works in progress.

*As to the Degrees of B.Sc. and D.Sc. in Engineering Science, see Index.*

*As to the Certificate of Proficiency in Engineering Science, see Index.*

*As to the Muir Bursaries, the Metcalfe Bursaries, the Walker Prizes and the George Harvey Prize, in the Department of Civil Engineering and Mechanics, see Index.*

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#### ENGLISH LANGUAGE AND LITERATURE.

This Chair was founded by ordinance of the Universities Commissioners of date 25th November, 1861, and is in the gift of the Crown.

##### *Professors.*

1862. JOHN NICHOL, LL.D.

1889. ANDREW CECIL BRADLEY, M.A.

The Class meets daily, except on Saturday, at 4.30 p.m.

Public students are examined orally. They are also required to pass written examinations, and to hand in exercises on subjects set from time to time.

The work of the Class will comprise the following subjects :—

1. English Composition and the Outlines of English Philology. Text-books: Nichol's *Composition Primer*, and Nichol and McCormick's *Questions and Exercises on English Composition*.
2. The History of English Poetry from Cowper to Keats: Text-books: Ward's *English Poets*, vol. IV. Some lectures will also be given on the Prose Literature of the period.
3. (a) Shakespeare's *Macbeth*. Text-book: the Clarendon Press edition of the play.
- (b) *Essays of Addison*, chosen by J. R. Green (Golden Treasury Series).

N.B.—For students who attend this Class the subjects specified above will be the subjects of the Degree Examinations in 1893 and 1894. The subjects of the Degree Examinations in 1893 for those who attended the English Literature Classes in Sessions previous to that of 1892-93 will be found on p. 122.

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### *NAVAL ARCHITECTURE, INCLUDING MARINE ENGINEERING.*

The John Elder Chair of Naval Architecture was founded by the University in 1883. An endowment of £12,500 was provided by Mrs. Elder, widow of Mr. John Elder, engineer and shipbuilder, Glasgow. The Professor is appointed by the University Court.

#### *Professors.*

1883. Francis Elgar, LL.D. | 1886. Philip Jenkins.

1891. JOHN HARVARD BILES.

The Courses of the Professor comprise a Junior Course of Lectures and Examinations upon Naval Architecture and the Theory of the Steam Engine and Marine Engine Design, and a Senior Course of Lectures and Examinations upon Naval Architecture and the Steam Engine; also a Junior and a Senior Course of Instruction in Ship Drawing and Calculations and Marine Engine Drawing and Design. The Junior Course of Lectures and Examinations may be taken in either the first or the second year of the regular curriculum, and the classes will

meet on Mondays, Wednesdays, and Fridays at 11 A.M. The Classes of the Senior Course will be held on Mondays, Tuesdays, and Thursdays from 11 A.M. to 12 noon, or at any other hour that may be found convenient.

The Junior Course of Instruction in Ship Drawing and Calculations and Marine Engine Drawing and Design is expected to be taken by students in the first year of the regular curriculum ; and the classes will be held on Tuesdays, Wednesdays, Thursdays, and Fridays from 2 P.M. to 4 P.M. The classes of the Senior Course will be held on Tuesdays, Wednesdays, Thursdays, and Fridays from 2 P.M. to 4 P.M., or at any other hour that may be found convenient.

Class Fee—For any Class, £3 3s.

A special Course of Evening Lectures will be given during the winter session of 1892-93, on the Strength of Ships, for which a student of any of the day classes may be enrolled without payment of any extra fee.

The fee for this Course only is one guinea, and the University fee five shillings.

As to the Degree of B.Sc. on the side of Naval Architecture and Marine Engineering, see Index.

As to the Clydebank Scholarship, the Lloyd's Register Scholarship, and the Elder Bursaries, see Index.

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## II.—FACULTY OF THEOLOGY.

The Faculty of Theology embraces the four classes of Divinity, Oriental Languages, Ecclesiastical History, and Divinity and Biblical Criticism.

The following regulations are applicable to students preparing for the ministry of the Church of Scotland. Under the Act of General Assembly, 1883, consolidating the Acts presently in force in regard to the study of Divinity, all candidates for the ministry are required to attend at the Divinity Hall either three full and regular Sessions, or two full and regular sessions and three partial sessions ; and to give at least two full sessions of regular attendance on the Classes of Church History, Hebrew, and Biblical Criticism.

Each student, in order to be enrolled for the first year of his

attendance must present to the Professor of Divinity, *first*, a certificate from the Presbytery within the bounds of which he usually resides, and by which he has been examined on his knowledge of the Holy Scriptures according to the authorized version, and of the Catechetical standards of the Church; and, *secondly*, a certificate signed by the Convener or Vice-Convener of one of the four Examining Committees appointed, under the Act of Assembly, 1872, to conduct the examination of students previous to their entering the Divinity Hall.<sup>1</sup> In order to be admitted to this examination he must produce, in addition to the certificate from the Presbytery recommending him, the diploma of a Master of Arts, or certificates from the several Professors under whom he has studied, that he has attended regularly all the classes prescribed by the Church for students who intend entering the Hall—viz., Latin, Greek, Logic, Mathematics, Moral Philosophy, Natural Philosophy, and English Literature, in such order as is prescribed at the University in which he has studied, and to the extent required for proceeding to the degree of Master of Arts. If he produces evidence that he holds the degree of Master of Arts, or that he has passed all the examinations required for taking that degree, it is competent for the Examining Committee to exempt him from examination in those branches of Literature and Science proficiency in which is denoted by such a degree. The examination extends also to the *New Testament in Greek* and the *Elements of Hebrew Grammar*.

The student, in order to his enrolment for each subsequent session of his course, is required to present to the Professor of Divinity a certificate from the Presbytery within whose bounds he chiefly resides, of his having been examined by them on the progress made by him in his studies, and of their satisfaction with the same, as well as a certificate of his good moral character from the minister of his parish, or, during a vacancy in the parish, from the moderator of the kirk-session.

At the close of each session every student is required to take with him to the Presbytery certificates from the several

<sup>1</sup> The Examining Committees meet at the respective University seats shortly before the commencement of each session, the times and places of meeting being duly announced in the "Missionary Record" of the Church of Scotland for July annually, along with the names of the Conveners and Vice-Conveners of the respective Committees. The programme of the books and subjects of examination for Session 1892-93 will be found in the "Missionary Record" for April, 1892.

Professors, under whom he has studied, of his good conduct and proficiency.

By Act XX. of the General Assembly, 1889, it is enacted—“That all students of Theology, who have completed the prescribed course of theological instruction, shall, before applying to any Presbytery to be taken on trial for licence, be examined by the Synodical Committee already existing for the examination of students entering the Divinity Hall—with such addition to the number of members of each of the said Examining Committees as the General Assembly shall determine—on the various subjects of theological study, leaving to Presbyteries the powers of examination for licence hitherto possessed and exercised by them; but providing that every candidate for licence by a Presbytery shall produce to the Presbytery a certificate from one of the said Examining Committees that his examination by them has been sustained; it being always competent to the said Examining Committee to exempt students who have taken the degree of Bachelor in Divinity at one of the Universities of Scotland from examination in those subjects of theological study, proficiency in which is denoted by the said Degree.”<sup>1</sup>

Students are required to study the art of public reading and speaking under some competent teacher approved by the Faculty of Theology,<sup>2</sup> during at least one hour a week in each of two sessions, the attendance extending in every case over at least sixteen weeks of the session, and to produce, before being taken on trials, due evidence of such attendance.

Each student is required during his curriculum to deliver *six* discourses—viz., an EXEGESIS in Latin on some controverted head in Divinity, a HOMILY in English, a CRITICAL EXERCISE on some portion of the original text of the Old Testament, an EXERCISE and ADDITION on some portion of the original text of the New Testament, a LECTURE on some portion of Scripture, and a POPULAR SERMON, with such other exercises as the Professors may think fit to prescribe. No student can be taken on trials for licence by any Presbytery until he has produced,

<sup>1</sup> The dates of examination and the subjects fixed by each Board will be intimated in the “Missionary Record” for December, 1892.

<sup>2</sup> For the purposes of the Act of Assembly, and to qualify for the competition for the Dowanhill Prizes, the following teachers are recognized:—Mr. G. W. Baynham, 43 Athole Gardens, Dowanhill; Mr. Henry Cooke, 38 Carnarvon Street; Mr. Thomas Harrower, 197 Pitt Street; Mr. William S. Vallance, 291 Sauchiehall Street; Mrs. Cunningham Craig, 11 Kersland Street, Hillhead; and Mr. John Forsyth, Motherwell.

along with Class Certificates from the Professors of Church History, Hebrew, and Biblical Criticism, a Certificate from the Professor of Divinity that the discourses so prescribed have been sustained.

The Faculty of Theology have adopted the following regulations as to the delivery of these discourses:—(1) That the Homily shall be given in to the Professor of Church History at such time as he shall appoint in the *first* session of the student's course; (2) that the Latin Exegesis shall be given in to the Professor of Divinity, and the Lecture to the Professor of Biblical Criticism, in the *second* year of the student's course, at such times as shall be appointed by these Professors respectively; and (3) that the Popular Sermon shall be given in to the Professor of Divinity, the Hebrew Critical Exercise to the Professor of Oriental Languages, and the Exercise and Addition to the Professor of Biblical Criticism, in the *third* session of the course, at such times as shall be appointed by the several Professors. The subjects of the Discourses will be prescribed by the Professors to whom they are severally to be given in.

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### DIVINITY.

This Professorship was founded in 1640, and the foundation ratified in Parliament. The Professor is appointed by the University Court..

#### *Professors.*

1640-50. David Dickson.	1740. Michael Potter.
1642-61. Robert Baillie.	1744. William Leechman, D.D.
1653. John Young.	1761. Robert Trail, D.D.
1669. Gilbert Burnet, D.D.	1775. James Baillie, D.D.
1674. David Liddell.	1778. William Wight, D.D.
1682. Alexander Ross, D.D.	1782. Robert Findlay, D.D.
1688. James Wemyss, D.D.	1814. Stevenson Macgill, D.D.
1692. James Wodrow.	1840. Alexander Hill, D.D.
1708. John Simson.	1862. John Caird, D.D.
1873. WILLIAM PURDIE DICKSON, D.D., LL.D.	

The Course of Theology extends over three sessions. The Lectures during next session will treat partly of Biblical Theology, partly of the History of Doctrine, and of Apologetics.

A portion of time will be devoted to instruction in Systematic Theology on the basis of a text-book. Essays and Discourses are prescribed to the students. In addition to the oral examinations on the Lectures, examinations in writing on the studies of the Class will be held at intervals during the session.

The Class will meet on five days of the week, in two divisions, the Senior at 11 A.M. and the Junior at 12 o'clock. Fee for each session, Three Guineas.

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### *ORIENTAL LANGUAGES.*

This Professorship was founded by Queen Anne, 1709. The Professor is appointed by the University Court.

#### *Professors.*

1709. Charles Morthland.	1761. Robert Trail, D.D.
1745. Alexander Dunlop, M.A.	1761. Patrick Cumin, LL.D.
1751. William Rouet.	1814. Gavin Gibb, D.D.
1753. George Muirhead.	1831. William Fleming, D.D.
1755. John Anderson, M.A.	1839. George Grey, D.D.
1757. James Buchanan, M.A.	1850. Duncan H. Weir, D.D.
	1877. JAMES ROBERTSON, D.D.

#### ARRANGEMENT OF CLASSES FOR SESSION 1892-93.

I.—*Junior Class (Hebrew)*, five days in the week at 10 A.M. (1) Hebrew Grammar, from the elements; (2) Readings from the easier Scriptures; (3) Lectures on Old Testament Introduction; (4) Daily oral examinations, weekly written exercises, and four written examinations during the session. Students preparing for the ministry are recommended to take this class before entering the Divinity Hall.

II.—*Senior Class (Hebrew)*, five days in the week at 9 A.M., and Tuesday and Thursday at 1 P.M. (1) Revisal of Grammar, study of the syntax and the accents; (2) Readings from the Hebrew Scriptures; (3) Daily oral examinations, weekly written exercises, expository essays, and four written examinations during the session; (4) Expository lectures by the Professor.

The one o'clock hour on Tuesday and Thursday will be

given, in the first part of the session, to revisal of grammar. Students found sufficiently prepared will be exempted from attendance at this hour ; and with this view a written examination will be held at the commencement of the session on Davidson's Grammar.

**III.—Private Class (Arabic), Monday, Wednesday, and Friday, at 1 P.M.**

Class Fee, £3 3s. The fee for the Private Class is £1 1s.

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### *ECCLESIASTICAL HISTORY.*

The Professorship of Ecclesiastical History was founded by George I., in the year 1716, but no appointment was made to the Chair till the year 1720. The Professor is appointed by the Crown.

By his Commission, the Professor of Ecclesiastical History is also **TEACHER OF CIVIL HISTORY** in the University.

#### *Professors.*

1721. William Anderson.	1807 <sup>1</sup> . William M'Turk, D.D.
1752. William Rouet.	1841. Jas. Seaton Reid, D.D.
1762. William Wight, D.D.	1851. Thos. T. Jackson, D.D.
1778. Hugh M'Leod, D.D.	1874. William Lee, D.D.
1886. ROBERT HERBERT STORY, D.D.	

The course extends over two sessions, and embraces a series of lectures as well as oral and written examinations. The junior and senior classes meet at separate hours, the junior from 11 to 12 o'clock, the senior from 12 to 1 o'clock.

Both classes are open to non-professional students. The fee for each session is Three Guineas.

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### *DIVINITY AND BIBLICAL CRITICISM.*

This Professorship was founded by ordinance of the Universities Commissioners, of date 25th November, 1861. The Professor is appointed by the Crown.

<sup>1</sup> Dr. M'Turk was assistant and successor to Dr. M'Leod from 6th March, 1797.

*Professors.*

1863. William P. Dickson, D.D.

1873. WILLIAM STEWART, D.D.

This Class will meet on five days of the week, at 10 A.M.

The course of lectures is arranged to extend over two sessions; and the Class should accordingly be attended in two consecutive years.

The lectures for 1892-93 will treat of the principles of Interpretation, and of some portions of New Testament Introduction.

The practical application of the principles of Criticism and Hermeneutics will be illustrated in Exegetical Lectures, and by the reading of portions of the Greek New Testament.

Essays on subjects suggested by the work of the Class are prescribed at intervals during the session, and the progress of the students is further tested by examinations, partly oral and partly written.

Fee for each session, Three Guineas.

*Class of New Testament Greek.*—This tutorial class is intended for those who are preparing to pass the examination on the *New Testament in Greek* previous to entering the Divinity Hall, and for those who, with a view to the Exit Examination at the close of the Divinity course, desire to extend their knowledge of New Testament Greek. It will be formed only if a sufficient number of students present themselves, and will meet on three days of the week, viz., Tuesday, Wednesday, and Thursday, at 9 A.M. Fee, Two Guineas.

## III.—FACULTY OF LAW.

The Faculty of Law embraces the classes of Law (including Scots Law and Civil Law) and Conveyancing, and also the class of Medical Jurisprudence. In this Faculty there are also Lectureships on Public Law and on Constitutional Law and History. The Lecturers are appointed for the term of four years.

For the information of students proposing to enter the legal profession, whether as Advocates or as Law Agents, it may

be stated that by the regulations of the Faculty of Advocates, every intrant to the Faculty is required to produce evidence of being duly qualified (1) in General Scholarship, and (2) in Law. In General Scholarship the possession of any one of certain University degrees, including the degree of M.A. or LL.B. from a Scottish University, is deemed a sufficient qualification. If the intrant does not hold a qualifying degree he is required to undergo an examination in certain specified branches of General Scholarship, as to which information may be obtained on application to the Clerk of Intrants to the Faculty. On the expiration of a year after the intrant has been found qualified in General Scholarship, his examination in Law may be proceeded with, subject to these conditions: (1) That he shall not during the year before such examination have engaged (except with the sanction of the Dean and his Council, upon special application before the year commences) in any trade, business, or profession, either on his own account, or as assistant to or in the employment of another; and (2) that he shall produce evidence of attendance on a certain course of study in Law. The attendance so required is as follows:—(1) attendance during at least one session as a pupil in a class of Scots Law, and a class of Conveyancing, in a Scottish University; (2) attendance during at least one session as a pupil in a class of (*a*) Civil Law, (*b*) Public or International Law, and (*c*) Constitutional Law in a Scottish University or in such other University as may be approved of by the Dean and his Council, and (*d*) Medical Jurisprudence, in a University, or in a School recognized as qualifying for University Degrees. On the production by the intrant of evidence of his having attended the necessary classes (which he may attend in any order he thinks fit), he is examined (1) on Civil Law, (2) on Private International Law, and (3) on Scots Law. If, however, the intrant has obtained the degree of LL.B. from a Scottish University he is held qualified in General Scholarship and Law without examination or other evidence of qualification, and may at once proceed to what is termed his "Public Examination," subject to the condition that during the year immediately before presenting his diploma he shall not have been engaged in any trade, business, or profession, as above set forth, except with the previous sanction of the Dean and his Council. The regulations regarding the "Public Examination," which all intrants,

whether graduates or not, must undergo, require that the intrants shall write a Thesis on a Title of the Pandects assigned to him by the Dean, and shall defend it on its being impugned. The question as to the intrant's admission is then decided by the Faculty voting by ballot.

Admission to the profession of a Law Agent is regulated by the Law Agents Act, 1873, 36 and 37 Vict., c. 63, and by certain relative Acts of Sederunt of the Court of Session, including one dated 20th December, 1873, prescribing rules as to subjects of examination and certain conditions of admission. The Act requires in general that every applicant for admission must have served an apprenticeship of five years with a practising law-agent or with a sheriff-clerk in office at the passing of the Act, which apprenticeship, if entered upon after the passing of the Act, must be served under indenture, recorded and intimated as the Act requires. In certain cases, however, an apprenticeship for three years is allowed as sufficient, the excepted cases including that of a person holding a degree in Law or in Arts of a University in Great Britain or Ireland granted after examination. The above-mentioned Act of Sederunt provides that (save in certain special excepted cases) no one shall be admitted as an apprentice until he has passed an Entrance Examination by the Examiners appointed by the Court. It also prescribes the subjects of that examination as well as of the examinations in General Knowledge and in Law which (subject also to certain exceptions) every applicant for admission as a Law Agent is required to pass before the same Examiners. An apprentice or applicant for admission is exempted from any entrance examination or examination in General Knowledge, if (*inter alia*) he holds a degree of any University in Great Britain or Ireland granted after examination, or if he has attended in three separate sessions three separate classes in Arts in any Scottish University (one of such classes being Humanity), and has taken part in the examinations in such classes. Also apprentices and applicants for admission who hold Leaving Certificates granted by the Lords of the Committee of the Privy Council on Education to pupils of Higher Class Schools, are exempted from examination in the subjects which these Certificates cover, Certificates of any Grade being sufficient for the Entrance Examination, but Higher Grade Certificates being necessary for the General Knowledge

Examination. By an Act of Sederunt of 20th July, 1878, it is declared not to be necessary for any applicant for admission who holds the degree of LL.B. or B.L. of any Scottish University to undergo an examination in Law before the Examiners, excepting only on Forms of Process, Civil and Criminal. By an Act of Sederunt of 4th November, 1886, it is provided that, while it is not necessary for admission as a Law Agent that any applicant shall have attended the classes of Scots Law and Conveyancing in a Scottish University, it shall be in the power of the Examiners, in conducting the examination of any applicant, to take into account whether such applicant has or has not attended such classes.

For Regulations as to Graduation in Law, see Index.

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### LAW.

This Professorship is in the gift of the Crown. After being long in abeyance for want of revenue, it was revived by the College in 1712, and endowed by Queen Anne in the following year.

#### *Professors.*

1714. Wm. Forbes, Advocate.	1842. Allan A. Maconochie,
1746. Wm. Cross, Advocate.	Advocate.
1750. Hercules Lindsay, LL.D.	1855. Geo. Skene, Advocate.
1761. John Millar, Advocate.	1867. Robert Berry, M.A.,
1801. R. Davidson, Advocate.	LL.D., Advocate.
1887. ALEXANDER MOODY STUART, Advocate.	

1. SCOTS LAW.—The course extends to about 100 Lectures, embracing as full a course of Scots Law in each session as the time will permit, and including, so far as practicable, Lectures on the following subjects:—Sources and Development of the Law of Scotland; the Law of Contracts and Obligations generally, their Constitution and Extinction, Legality and Illegality; the Law of Sale, at Common Law and as affected by Statute; Stoppage *in transitu*; Retention and Lien; Loan; Deposit; Pledge; Hiring, and the Law of Master and Servant; Law of Carriers and Affreightment; Mandate; Partnership; Bills of Exchange; Cautionary Obligations; Marine, Fire, and Life

Insurance; Law of Heritage; Servitudes; Prescription as applicable to Heritage; Law of Landlord and Tenant; Succession in Heritage and Moveables, Testate and Intestate; Marriage and Divorcee, and the Rights of Husband and Wife; Law of Parent and Child; Guardian and Ward; Actions and Evidence; Diligence and Bankruptcy; Criminal Law, etc.

The text-books recommended to Students are Bell's *Principles of the Law of Scotland* and Erskine's *Principles of the Law of Scotland* (18th edition).

The Class meets five days a week—viz., every day except Monday, from 8 to 9 A.M. At intervals throughout the session the hour is devoted to the ordinary Class examinations, which are conducted in writing.

The Fees for the Class of Scots Law are £4 4s. for the first year of attendance, £2 2s. for the second, and £1 1s. for the third.

Three Prizes are given by the University for proficiency in the class examinations; and the "Robert Ross Prize," being the free annual income of a sum of £500 bequeathed by the late Robert Ross, Esq., writer, Glasgow, is awarded in equal portions to the head students of the year in this class and in the class of Conveyancing. Prizes are also given by the Faculty of Procurators, generally for distinction in a special written examination towards the end of the session.

2. CIVIL LAW.—In addition to the class of Scots Law, a class of Civil Law will be formed in alternate sessions.

The text-book recommended is Moyle's *Institutes of Justinian*.

The Fee for the Class is £4 4s.

It is not proposed to form a class of Civil Law in session 1892-93.

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### CONVEYANCING.

This Chair was instituted by ordinance of the Universities Commissioners, of date 15th June, 1861, which was approved by Her Majesty in Council on 11th October, 1861. The right of appointment to the Chair is vested in the Dean and Council of the Faculty of Procurators, Glasgow.

*Professors.*

1862. Anderson Kirkwood, LL.D.  
 1867. Sir James Robertson, LL.D.  
 1889. JAMES MOIR, Member of the Faculty of  
 Procurators, Glasgow.

The Course extends to about 100 Lectures, and during the session there are both oral and written examinations. As full a course of Conveyancing is given each session as the time permits. The subjects treated will be selected from the following list, viz.: (1) Introductory and Preliminary Lectures. (2) The Feudal and Burgage System, the constitution of Feudal and Burgage Rights, and the transmission thereof by Deeds *inter vivos*, or by Judicial Acts. (3) Heritable Securities. (4) Leases. (5) Marriage Contracts, Bonds of Provision, Testamentary Deeds and Deeds of Entail. (6) The completion of Titles, in case of death, to Heritable and Moveable Estate.

The Class meets every day, except Monday, from 8 to 9 A.M.

The text-book recommended is Professor A. M. Bell's *Lectures on Conveyancing*.

Fees.—First year, £4 4s. ; second year, £2 2s.

Prizes are given for eminence in the Class examinations during the session. Prizes are also given by the Faculty of Procurators for distinction in a written examination held towards the end of the session on some of the subjects of the course; and the "Robert Ross Prize," being the free annual income of a sum of £500 bequeathed by the late Robert Ross, Esq., writer, Glasgow, is awarded in equal portions to the head students of the year in this Class and in the Class of Scots Law.

*MEDICAL JURISPRUDENCE.*

This Professorship was created by the Crown in 1839.

*Professors.*

1839. Robert Cowan, M.D. | 1841. Harry Rainy, M.D.  
 1872. PIERCE ADOLPHUS SIMPSON, M.A. (Cantab.), M.D.

This Course qualifying for graduation in Law (B.L. and LL.B.), extends to upwards of 40 Lectures, and is chiefly

devoted to the following medico-legal subjects—viz., Infanticide; Concealment of Pregnancy; Rape; Wounds; Identity; Presumption of Survivorship; General Evidence in Cases of Poisoning; Poisoning by Arsenic; Examination of Blood Stains; Legitimacy; Insanity. The foregoing are the subjects prescribed for examination in the department of Law. The Class will meet in alternate years in the Rooms of the Philosophical Society, 207 Bath Street, on five days a week—viz., Tuesday, Wednesday, Thursday, Friday, and Saturday, at 8.45 A.M., commencing early in April. (*Text-book—Principles of Forensic Medicine* by Guy and Ferrier.)

Fee for the Course, £3 3s. The next Course will be given in 1893.

(See under Faculty of Medicine, p. 91.)

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### PUBLIC LAW.

This Lectureship was instituted by the University in 1878.

#### *Lecturer.*

1878. WILLIAM GALBRAITH MILLER, M.A., LL.B., Advocate.

In Session 1892-93 there will be a course qualifying for degrees in Law and constituting half a course in Public Law for the Degree of M.A. This course will comprise—

1. Some Introductory Lectures on the relation between Jurisprudence and the other branches of Philosophy, and between the different branches of Positive Law. *Text-Book—Miller's Philosophy of Law.*

2. A series of Lectures on a period of the History of International Law.

3. A course of Public International Law. *Text-Book—Hall's International Law.*

4. A similar course of Private International Law. *Text-Book—Guthrie's Savigny's Private International Law.*

The Class meets in the Faculty Hall, St. George's Place, during the Winter Session, on Mondays and Thursdays, at 5.30 P.M. It meets in alternate winters, alternating with the Civil Law Class.

There will be given also a distinct half course of the Philosophy of Law, qualifying for the degree of M.A. This course will be given in the same place and on the same days, at 6 p.m. Text-books: Halland's *Jurisprudence*; Miller's *Philosophy of Law*; and Holmes, *The Common Law*.

Class Fee—First year, £3 3s.; second year, £1 11s. 6d.

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### *CONSTITUTIONAL LAW AND HISTORY.*

This Lectureship was instituted by the University in 1878.

#### *Lecturers.*

- 1878. Charles Scott Dickson, M.A., Advocate.
- 1878. Alexander Ure, M.A., LL.B., Advocate.
- 1889. ROBERT T. YOUNGER, M.A., LL.B., Advocate.

The Lectures will be partly Doctrinal and partly Historical. They will embrace chiefly the subjects discussed in the textbooks prescribed for those who propose taking the degrees of B.L. and LL.B. The Doctrinal Lectures will deal with the law and custom of the Constitution at the present time. The Historical Lectures will cover the period from the Norman Conquest to the present reign. Examinations in writing on the Lectures and on subjects to be prescribed by the Lecturer, will take place at short intervals throughout the session.

The Class will meet in alternate years during the Summer Session in the Faculty Hall, St. George's Place, five days a week, viz.:—On Monday, Tuesday, Wednesday, Thursday, and Friday, at 5.20 P.M. Fee for the Course, £3 3s.

The Class will not meet in the Summer Session of 1893.

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### IV.—FACULTY OF MEDICINE.

The Faculty of Medicine embraces the Classes of Practice of Medicine, Anatomy, Natural History, Surgery, Midwifery, Chemistry, Botany, Materia Medica, Institutes of Medicine, Medical Jurisprudence, Clinical Surgery, Clinical Medicine, Pathology, and the summer Course of Physics for medical

students, on all of which attendance is required for the Degree of M.B. To this Faculty also belong the Lectureship on Diseases of the Eye, the Lectureship on Insanity, and the Courses of instruction necessary for the Diploma in Public Health.

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### *PRACTICE OF MEDICINE.*

This Professorship, created in 1637, but long suppressed for want of revenue, was revived by the College in 1712, and endowed by Queen Anne in the following year. It is in the gift of the Crown.

#### *Professors.*

1714. John Johnstoun, M.D.	1789. Thomas C. Hope, M.D.
1751. William Cullen, M.D.	1796. Robert Freer, M.D.
1756. Robert Hamilton, M.D.	1827. Charles Badham, M.D.
1757. Joseph Black, M.D.	1841. William Thomson, M.D.
1766. Alex. Stevenson, M.D.	1852. John M'Farlane, M.D.
1862. WILLIAM TENNANT GAIRDNER, M.D., LL.D.	

The course is directed to the exposition of the Healing Art in its more practical aspects, having regard especially to those general principles and doctrines which are more directly available at the bedside of the sick. It is the object of the Lecturer to enforce these principles from a variety of points of view, rather than to give a complete synopsis annually of the individual details of practice in all departments. He is, therefore, in the habit of varying the arrangement of the course from year to year, in order that the mind of the student may be brought to bear upon different aspects of the subject with sustained and renewed attention. In 1892-93 the first part of the course will be occupied with the leading, and mostly the Chronic, Constitutional Diseases,—*e.g.*, Atrophy, Anaemia, Scurvy, Diabetes, Gout, Rheumatism, etc.; Tubercle and Syphilis will also be discussed, and, in connection with the latter, certain Diseases of the Skin. In the early part of the course, up to Christmas, instruction will be given, partly in lectures and partly in the tutorial classes, on the elements of Physical Diagnosis—*i.e.*, Auscultation and Percussion, etc., with reference chiefly to Chest Diseases, so as to constitute a

preparation for hospital and dispensary work. Diseases of the Respiratory Organs will next engage attention, and afterwards Diseases of the Urinary Organs. Professor Gairdner proposes to lecture during the summer, 1892, on Diseases of the Abdomen, which will also form a part of the tutorial work of next winter. Dr. Gowers's work in two vols., or the part of Dr. Hilton Fagge's posthumous work (see below) relating to this department, may be read by the more advanced students, along with Bristowe's text-book. The course will be illustrated by drawings, wax casts, models, and preparations of morbid Anatomy; and the Lecturer will also refer to the cases under his care in the Infirmary, and, in general, will lead the student to look to his Hospital practice as the evidence in detail of what is stated in the class-room. Professor Gairdner conducts at the Western Infirmary part of the Clinical Instruction given to the medical students connected with the University.

*Text-Books.*--Those most generally used in the Class are:—Bristowe's *Theory and Practice of Medicine*, last edition: Finlayson's *Clinical Manual for diagnosis and hospital work*: and Tanner's *Index of Diseases* (for reference to remedies and formulae). The following well-known systematic treatises, however, are also recommended, and may be used by those who prefer them, viz.:—The recently published *Principles and Practice of Medicine*, by the late Dr. Fagge (London, 1886); Tanner (the larger work including the smaller index), Frederick Roberts, Niemeyer (American translation), Austin Flint, *Principles and Practice of Medicine*, 1886, 6th edition. Aitken's *Science and Practice of Medicine* will be found specially useful by those who intend to enter the Army or Navy Medical Service. Graham Brown's, also Fenwick's *Treatises on Medical Diagnosis*, and Gee on *Auscultation and Percussion*, are smaller and more special works, which will be found very serviceable. A still more recent, and excellent, Text-book on Physical Diagnosis is that of Drs. Gibson and Russell, of Edinburgh. The Professor's *Clinical Medicine* (1862) is out of print, but will be found in the Reading-Room, and may be used for occasional reference.

*ANATOMY.*

This Professorship, with which Botany was at first associated, was founded in 1718 by the Crown and College jointly. A separate Professorship of Botany was established in 1818, a distinct lectureship on that branch having existed for a considerable time previously.

*Professors.*

1720. Thomas Brisbane, M.D.	1781. William Hamilton, M.D.
1742. Robert Hamilton, M.D.	1790. James Jeffray, M.D.
1756. Joseph Black, M.D.	1848. Allen Thomson, M.D.,
1757. Thos. Hamilton, M.D.	LL.D., F.R.S.
1877. JOHN CLELAND, M.D., LL.D., D.Sc., F.R.S.	

*Demonstrators:*

- John Yule MacKay, M.D.  
George Lamb, M.B., C.M.  
John Morton, M.B., C.M.

In the WINTER SESSION, Anatomical Instruction is conducted in the following courses, viz.:—

1. ELEMENTARY DESCRIPTIVE LECTURES.—This Class meets on five days weekly, from 2 to 3 o'clock. The lectures comprehend a full systematic description of the Bones, Joints, Muscles, and Muscular Organs, and a general view of the Nervous System, and Viscera.

2. ADVANCED DESCRIPTIVE LECTURES AND DEMONSTRATIONS.—This Class meets on six days weekly, from 11 to 12 o'clock, viz., on five days for lecture, and on Saturday for Microscopical Demonstrations. The course comprehends: 1st, Demonstrations of Regional or Topographical Anatomy, including the Distribution and Relations of the Blood-Vessels and Nerves; 2nd, Histology and a Detailed Description of the Viscera, Brain, and Organs of Sense.

3. PRACTICAL ANATOMY, or DISSECTIONS made by the students, under the superintendence of the Professor and Demonstrators. The rooms are open from 9 A.M. to 4.45 P.M. daily, except on Saturdays when they close at mid-day.

*Text-Books*—Quain's, Gray's, Leidy's or Macalister's *Anatomy*; Ellis's *Demonstrations*; Cleland's *Directory for Dissection*.

In the SUMMER SESSION, the rooms for Practical Anatomy are open from 8 A.M. to 3 P.M. daily. Demonstrations on Surgical and Topographical Anatomy, as well as lectures on Embryology and other of the higher branches of Anatomy, are delivered regularly, and are free to members of the Practical Class. Elementary Instruction for beginners is also provided.

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### NATURAL HISTORY.

This Professorship was founded by George III., in 1807. The Professor is appointed by the Crown. In 1876 Mrs. Honyman Gillespie of Torbanehill, endowed a Lectureship in Geology, to be called the "Honyman Gillespie Lectureship," in memory of her husband, W. Honyman Gillespie, Esq. The Professor of Natural History is the present Lecturer.

#### *Professors.*

1807. Lockhart Muirhead, LL.D.  
1829. William Couper, M.D. | 1857. Henry D. Rogers, LL.D.  
1866. JOHN YOUNG, M.D.

#### *Honyman Gillespie Lecturer.*

1876. JOHN YOUNG, M.D.

The arrangements for the ensuing year are as follows:—

1. A course of Lectures on Zoology, daily at 9 A.M., beginning in October.
2. A course of Lectures on Geology, daily at 5.30 P.M., beginning in January.
3. A course of Lectures on Zoology at 12 noon, beginning in May.
4. Announcement of the Demonstrations in Geology will be made as soon as the William Baxter Demonstrator shall be appointed. (See page 95.)

Practical Instruction in Zoology will be given in the Zoological Laboratory during the winter and summer sessions by the Professor, with the assistance of Mr. James Rankin. A copy of the Laboratory regulations may be obtained from the Laboratory attendant.

The Professional Examinations in October, 1892, will have special reference to the *Lamellibranchiata*, *Gasteropoda*, *Arachnida*, and *Reptilia*; those in April, 1893, to the *Aves*, *Insecta*, *Rotifera*, and *Annelida*.

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### SURGERY.

This Professorship was founded in 1815, and is in the gift of the Crown.

#### *Professors.*

1815. John Burns, M.D.

1850. James A. Lawrie, M.D. | 1860. Joseph Lister, M.B., F.R.S.

1869. SIR GEORGE H. B. MACLEOD, M.D., LL.D., F.R.S.E.

The Professor delivers during winter a course of lectures on the Principles and Practice of Surgery, and in summer conducts a course of Operative Surgery. He also conducts at the Western Infirmary part of the Clinical Instruction given to the Medical Students connected with the University.

#### GENERAL OUTLINE OF COURSE.

- I. History of Surgery.
  - II. Maladies common to all the Tissues and Organs.
    - (a) Inflammation and its consequences.
    - (b) External Injury.
    - (c) Virulent Affections.
    - (d) Tumours.
  - III. Maladies of Special Tissues and Organs.
  - IV. " of Regions.
  - V. Principles of Surgical Diagnosis.
  - VI. Operations.
- 

### MIDWIFERY.

This Professorship was founded by George III. in 1815. The Professor is appointed by the Crown.

*Professors.*

1815. James Towers, M.D.

1820. John Towers, C.M. | 1834. William Cummin, M.D.

1833. Robert Lee, M.D. | 1840. John M. Pagan, M.D.

1868. WILLIAM LEISHMAN, M.D.

The Lectures embrace the Theory and Practice of Midwifery and the Diseases of Children. The Professor was *ex officio* Physician to the University Lying-in Hospital and Dispensary, an institution which was many years ago established in the neighbourhood of the old College. The altered circumstances of the school having, however, rendered this situation unavailable for Clinical instruction, other arrangements have now been made by which the Managers of the Western Infirmary have placed a ward for the Diseases of Women under the charge of the Professor. Ample opportunity is afforded for Clinical instruction in Midwifery at the Glasgow Maternity Hospital, to which the Professor holds the appointment of Consulting Physician.

A course of lectures on the Diseases of Women is delivered in summer.

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*CHEMISTRY.*

This Professorship was founded by George III. in 1817, previous to which time (from 1747) there were Lecturers on Chemistry appointed by the University. The Professor is appointed by the Crown.

*Lecturers.*

1747. William Cullen, M.D.	1769. William Irvine, M.D.
1756. Joseph Black, M.D.	1787. Thomas C. Hope, M.D.
1766. John Robison, LL.D.	1791. Robert Cleghorn, M.D.

*Professors.*

1818. Thomas Thomson, M.D.	1852. Thomas Anderson, M.D.
1874. JOHN FERGUSON, M.A., LL.D., F.S.A.	

*Assistants.*

James Stanley Muir, B.Sc.	William R. Lang, B.Sc.
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*Lectures on Systematic Chemistry.*

The Lectures of this course are delivered daily at 10 A.M. during the Winter Session. They commence with the discussion of the General Principles of Chemical Philosophy, the Non-Metallic and Metallic Elements and their compounds are then treated of, and the latter part of the Course is devoted to the subject of Organic Chemistry.

*Tutorial Classes.*—In addition to attendance at the lectures, the students are required to attend the Tutorial Classes, each of which meets twice a week. In these classes additional instruction, by means of oral examination and written exercises, is given.

Written examinations of the whole class are held at intervals during the session.<sup>1</sup>

*Analytical Chemistry.*

The Laboratory is open daily during the Winter and Summer Session from 10 A.M. to 4 P.M., for instruction in Chemical Analysis and the application of Chemistry to Medicine and the Industrial Arts. Each student works independently, and goes through a regular series of analytical experiments of gradually increasing difficulty, until he is capable of performing a complete analysis. The more advanced students engage in original investigation.

Fee for the Winter Session, £10 10s.; for the Summer Session, £5 5s.

*Practical Chemistry.*

This Course, which is intended for Medical Students, is given during the Summer Session. It treats of the methods of testing the different bases and acids, the detection of poisons, and the preparation of the more important Pharmaceutical compounds.

<sup>1</sup> Arrangements are making by which short courses of from 12 to 20 or 25 Lectures on some special or advanced subject will be delivered during the Session. The subject of these courses will be announced from time to time.

It is proposed to give Lectures next Session on some of the Subjects connected with the B.Sc. Degree, and also a course of Lectures on the earlier period of Modern Chemical History.

Attendance on the course of Chemistry being required for the Certificate in Engineering Science, and for the degree of B.Sc., the attention of students is directed to the following points. It will be found of great advantage to attend the Laboratory course as well as the Lectures, and care should be taken to arrange the classes in such a manner as to leave an interval for study between the conclusion of the Chemical Classes and the Degree Examination.

The Senate have resolved that "Hereafter no candidate for a Certificate in Engineering Science shall be admitted to examination in the Department of Chemistry who has not attained to the value of 50 per cent. for his written exercises in the class."

For the "Malcolm Kerr," the "Metcalfe," the "George A. Clark" Bursaries, the "John Clark (Mile-end)" Scholarships, the "Breadalbane" Scholarships, the "Donaldson" Scholarships, and the "Mackay Smith" Scholarship, in connection with Chemistry, see under "Bursaries" and "Scholarships."

### BOTANY.

This Professorship was founded in 1818. The appointment is vested in the Crown. (See page 113, as to Botanic Garden.)

#### *Professors.*

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|---------------------------------|----------------------------------|
| 1818. Robert Graham, M.D.       | 1845. G. A. Walker-Arnott, LL.D. |
| 1821. Sir W. J. Hooker, LL.D.   | 1868. Alexander Dickson, M.D.    |
| 1841. John H. Balfour, M.D.     | 1879. I. B. Balfour, M.D., D.Sc. |
| 1885. FREDERICK O. BOWER, D.Sc. |                                  |

Lectures are given at the College every Tuesday, Wednesday, Thursday, Friday, and Saturday, at 8 A.M., during the months of May, June, and July. On Saturdays, according as the season and the weather permit, either excursions are made for the study of plants in the fields, or microscopic demonstrations are given in the Laboratory.

Demonstrations are given in the Botanic Garden or at the College during June and July.

The Botanical Laboratory at the College is open daily from 9 A.M. to 4 P.M. from the beginning of May to the end of July.

Classes for elementary practical work in the Botanical Laboratory are formed during these months at hours, so far as practicable, to suit the convenience of students.

A course of advanced Lectures, as well as a more extended course of Practical Instruction, designed for candidates for the Science Degree, or other more advanced students, will be given in the Laboratory during the winter session. Notice of times of meeting of these classes will be given in due course.

The University Herbarium may be consulted by students on applying to the Professor.

Students in the Botanical Class may obtain, by applying to the Professor, specimens of plants from the Botanic Garden for private study.

Fees for the Elementary Class:—First Course, £3 3s. Second Course, £2 2s. Third Course, £1 1s. For the advanced course of Lectures, £ . For the Botanical Laboratory (either the elementary or the advanced course), £2 2s.

For particulars as to the “Dobbie-Smith” Gold Medal, see under “Prizes.”

### *MATERIA MEDICA.*

A Lectureship on this branch was founded by the College in 1766, and a Professorship created by the Crown in 1831.

#### *Lecturers.*

1766. William Irvine, M.D.	1788. Richard Cleghorn, M.D.
1787. Thomas C. Hope, M.D.	1791. Richard Millar, M.D.

#### *Professors.*

1831. Richard Millar, M.D.	1855. John A. Easton, M.D.
1834. John Couper, M.D.	1865. John B. Cowan, M.D.
1880. MATTHEW CHARTERIS, M.D.	

The instructions in *Materia Medica* comprise a Winter Course devoted to the action of remedies and the treatment of disease by medicines, climate, and diet. In the summer Course, which it is advisable to take before the Winter one, the instructions are on the official preparations of *Materia Medica* and Practical Pharmacy. At the third professional examination,<sup>1</sup> written and oral questions on both subjects will be submitted to candidates.

<sup>1</sup> See Appendix VI., p. 499, New Ordinance for Degrees in Medicine, Sections XI., XIII.

*Text-books.*—For *Materia Medica* and *Pharmacy*, Mitchell Bruce's *Materia Medica*, etc., Whitla's *Elements of Pharmacy*; for *Therapeutics*, Charteris's *Practice of Medicine* (6th edition).

### INSTITUTES OF MEDICINE, OR PHYSIOLOGY.

This Professorship was founded by Her Majesty, Queen Victoria, in the year 1839.

#### *Professors.*

1839. Andrew Buchanan, M.D.

1876. JOHN GRAY M'KENDRICK, M.D., LL.D., F.R.S., F.R.S.E., F.R.C.P.E.

#### *Muirhead Demonstrator.*

William Snodgrass, M.A., M.B., C.M.

#### SYSTEMATIC LECTURES.

The Lectures of this course are delivered daily at 12 noon during the Winter Session. They are devoted to an exposition of the main principles and facts of the Physiology of man.

1. *General Physiology*, which includes a description of the functions of the various tissues, and of the chemical reactions which occur in the living body.

2. *Special Physiology*, or the functions of organs and systems of organs. This division of the subject includes (1) nutrition, (2) animal movements, (3) innervation, and (4) reproduction.

Written and oral examinations are held during the session.

#### PRACTICAL PHYSIOLOGY.

During the *Summer Session*, practical instruction is given in the Laboratory, by the Professor, Muirhead Demonstrator, and assistants, to classes of not more than thirty-five students in each class, at such hour or hours as may be found convenient. The hours usually selected are 8 to 9 A.M. and 12 noon to 1 P.M. daily (except Saturday). This course includes:—(1) Instruction in the use of the microscope, and in the microscopical examination of the various tissues with the aid of modern methods of hardening, staining, cutting, and mounting preparations. (2) The analysis of the principal fluids of the body, with special reference to the physiological processes by which they are pro-

duced. (3) The modes of observing and recording physiological phenomena. Students will be instructed in the use of physiological apparatus, and will have the opportunity of acquiring information which cannot readily be communicated in systematic lectures. Fee, £3 3s.

Candidates for the degree of B.Sc. will have special facilities for Laboratory work *during the Winter Session*. They are requested to communicate with Dr. M'Kendrick on or before 3rd November.

#### *The Laboratory.*

The Laboratory is open daily from 10 A.M. to 4 P.M., under the superintendence of the Professor, to whom application should be made by those who may wish to pursue original investigation. It is furnished with the most modern appliances both for research and for the illustration of lectures on Physiology.

#### *Text-Books.*

For the Systematic and Practical Classes—*Text-Book of Physiology*, 2 vols., by Dr. M'Kendrick.

As to the Muirhead Demonstratorship of Physiology see p. 94.

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### *MEDICAL JURISPRUDENCE.*

This Professorship was created by the Crown in 1839.

#### *Professors.*

1839. Robert Cowan, M.D.		1841. Harry Rainy, M.D.
1872. PIERCE ADOLPHUS SIMPSON, M.A. (Cantab.), M.D.		

The lectures on Forensic Medicine are intended to elucidate the application of Medical Science to judicial proceedings, whether civil or criminal.

The first part of the course is occupied with Medical Evidence as bearing on personal injuries, including Poisoning. This is followed by questions connected with the Sexual Functions, and questions relating to Bodily and Mental Soundness.

In addition to oral examinations, subjects are prescribed for written exercises; and in the department of Toxicology facili-

ties are afforded for students desirous of becoming practically acquainted with the tests for poisonous substances, and the processes for separating these from organic mixtures.

N.B.—*The Lectures on Forensic Medicine are delivered during the Summer Session daily at 11 a.m. (See under Faculty of Law.)*

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### CLINICAL SURGERY.

This Professorship was founded by the University in May, 1874. The Professor is appointed by the University Court.

*Professor.*

1874. GEORGE BUCHANAN, M.A., M.D., LL.D.

The Professor teaches Clinical Surgery by “Lectures and other instruction” on the cases of patients affected with injuries, diseases, etc., requiring Surgical treatment. There is a Summer as well as a Winter Course.

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### CLINICAL MEDICINE.

This Professorship was founded by the University in May, 1874. The Professor is appointed by the University Court.

*Professor.*

1874. THOMAS M'CALL ANDERSON, M.D.

The Professor teaches Clinical Medicine by “Lectures and other instruction” on the cases of patients requiring Medical treatment. There is a Summer as well as a Winter Course.

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### IV.—LECTURESHIPS, DEMONSTRATORSHIPS, ETC.

#### THE ARNOTT AND THOMSON DEMONSTRATORSHIP IN EXPERIMENTAL PHYSICS.

This Demonstratorship was founded in 1875 by the liberality of Sir William Thomson and Mrs. Arnott, widow of Dr. Neil Arnott, founder of the Arnott Prizes, who invested respectively

£2,000 and £1,000 for the purpose of encouraging the study of Experimental Physics in the University of Glasgow. The Demonstratorship is in connection with the Physical Laboratory of the University. The holder is appointed annually by the Professor of Natural Philosophy, subject to the approval of the University Court, and his duties are to perform, and direct in the performance of, experimental researches in the Physical Laboratory, in connection with, and under the direction of, the Professor of Natural Philosophy, to give practical laboratory courses suitable for Medical and Engineering students, and to take part in the teaching of the Natural Philosophy Class, if required by the Professor, and in such way and at such times as may be appointed by the Senatus Academicus of the University.

*Demonstrator.*

1875. JAMES THOMSON BOTTOMLEY, M.A., D.Sc., F.R.S.

GIFFORD LECTURESHIP ON NATURAL THEOLOGY.

This Lectureship, as well as similar Lectureships in the other Scottish Universities, was founded in 1887 in accordance with the Trust Disposition and Settlement of the late Adam Gifford, sometime one of the Senators of the College of Justice, Scotland. Lord Gifford directed his Trustees to pay over to the Senatus Academicus of the University of Glasgow the sum of Twenty Thousand Pounds for the purpose of establishing a Lectureship or Popular Chair for promoting, advancing, and diffusing the study of Natural Theology, in the widest sense of that term—in other words, “the Knowledge of God, the Infinite, the All, the First and Only Cause, the One and the Sole Substance, the Sole Being, the Sole Reality, and the Sole Existence, the Knowledge of his Nature and Attributes, the Knowledge of the Relations which men and the whole universe bear to Him, the Knowledge of the Nature and Foundation of Ethics or Morals, and of all Obligations and Duties thence arising.” The Senate are the Patrons. The Lecturer is appointed for a period of two years and no longer, but the same Lecturer may be reappointed for other two periods of two years each, provided that no one person shall hold the office of Lecturer in this University for more than six years in all. The Lecturer is subjected to no test of any kind, and he is not

required to take any oath, or to emit or subscribe any declaration of belief, or to make any promise of any kind. The Founder expressed a wish that the subject should be treated as a strictly natural science, like astronomy or chemistry. Matriculated Students and others may attend the Lectures.

1888. Professor Max Müller.

1892. Principal CAIRD, D.D., LL.D.

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PUBLIC LAW, see p. 78.

CONSTITUTIONAL LAW AND HISTORY, see p. 79.

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#### DISEASES OF THE EYE.

This Lectureship was instituted by the University in 1828. Great advantages are offered to students for the study of this branch of practice by the Lecturer being one of the Surgeons of the Glasgow Eye Infirmary.

#### *Lecturers.*

1828. William M'Kenzie, M.D. | 1868 George Rainy, M.D.  
1869. THOMAS REID, M.D.

#### *Waltonian Medical Lectureship.*

Founded in 1788 by Rev. Dr. William Walton, of Upton, in the County of Huntingdon, who bequeathed to the Senate for its support the sum of £1,000, which has been increased by subsequent accumulations to £2,650. It is at present held by DR. THOMAS REID, who is also lecturer on Diseases of the Eye.

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#### THE MUIRHEAD DEMONSTRATORSHIP OF PHYSIOLOGY.

In January, 1877, Dr. Henry Muirhead, of Longdales, Bothwell Parish, and afterwards of Cambuslang, presented to the University the sum of £2,100, and in November, 1879, a further sum of £400 to endow a Demonstratorship of Physiology in connection with the Chair of Institutes of Medicine—the main object being the promotion of medical science by the training of young men of suitable capacity to become teachers and investigators of Physiology. The regulations with reference to the appointment are as follows:—

1. That the title of the appointment be “The Muirhead Demonstrator of Physiology.”

2. That the holder of the office shall act as an assistant to the Professor of Institutes of Medicine in teaching the classes of Systematic and Practical Physiology and in original investigation.
3. That he shall also be expected and encouraged to engage in independent scientific investigation under the direction of the Professor.
4. That he will not be entitled to conduct any class on his own account without the consent of the Professor.
5. That the incumbent will be expected to devote his entire time to the duties of the appointment.
6. That the appointment be made annually by the Senatus Academicus, with the consent of the University Court, on the recommendation of the Professor of the Institutes of Medicine, who shall furnish evidence to the Senatus of the suitability of the person recommended by him.

*Present Demonstrator.*

WILLIAM SNODGRASS, M.A., M.B., C.M.

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PATHOLOGY.

This Lectureship being held by the Pathologist to the Western Infirmary, the classes are conducted in that institution, and material for practical instruction is thereby afforded.

*Lecturer.*

1890. JOSEPH COATS, M.D.

Two courses are held, one of Pathology in winter, and one of Practical Pathology in summer.

The course of Pathology consists of systematic lectures and demonstrations. The lectures are devoted to an exposition of the fundamental facts and principles of Pathology. In the demonstrations the fresh material from the Infirmary is used as the basis for an exposition of the subjects illustrated by it. Microscopic demonstrations are held on Saturdays in connection with both the lectures and demonstrations.

The class of Practical Pathology meets during the Summer Session. The students are taken through a course of Pathological Histology and Bacteriology.

In the work of the classes two assistants take part. The

Museum of the Western Infirmary is open to the students, and a printed catalogue is provided. The post-mortem examinations, which are conducted from 10 a.m. onwards, are also open to the students. Text-books.—*A Manual of Pathology* by Dr. Joseph Coats, and *Practical Pathology* by Dr. J. Lindsay Steven.

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#### INSANITY.

This Lectureship was instituted by the University in 1880. Great advantages are offered to students for the study of this subject by the Lecturer being the Superintendent of the Royal Lunatic Asylum, Gartnavel.

#### *Lecturer.*

#### 1880. DAVID YELLOWLEES, M.D., LL.D.

A Course of Lectures is given in the University at 12 noon on Wednesdays during the summer session, and Clinical Instruction at the Asylum, Gartnavel, at 10 a.m. on Saturdays. Fee for the combined course, £2 2s.

For the Mackintosh Mental Science Bursary in connection with this class see "Bursaries."

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#### THE WILLIAM BAXTER DEMONSTRATORSHIP IN GEOLOGY.

This Demonstratorship was founded by the Trust Disposition and Settlement of Mr. William Baxter, Hillhead, Glasgow, who died on 20th November, 1888, and bequeathed to the Senate the sum of £2,500, free of legacy duty, the annual income of which, less the cost of management, he directed should be paid half-yearly to the Demonstrator on the joint certificate of the Clerk of Senate and the teacher of Geology for the time being. The Senate are the patrons of the Demonstratorship.

The following Regulations, drawn in terms of the Founder's will, were adopted by the Senate on 28th February, 1889:—

1. The Demonstratorship shall be held for three years, and shall be open to the candidate who in the three years intervening between each appointment shall have passed the Degree of B.Sc. with honours, or, in the event of several candidates ob-

taining honours, to the candidate whose aggregate marks for the whole subjects of the said degree are the highest ; but in the event of no candidate attaining to honours, the Senate may, if they see fit, award the Demonstratorship to the candidate who shall stand highest in the list, provided his average of marks over all the said subjects is not less than 70 per cent., but any candidate who fails to obtain at least 70 per cent. of marks in the Department of Geology shall *eo ipso* be disqualified to hold the Demonstratorship.

2. The three years' tenure of office shall be subject to the condition that the incumbent discharges the duties of the office to the satisfaction of the Senate, who have power "to deprive any Demonstrator of his stipend, or a part thereof, should they at any time become dissatisfied with his conduct or his ability to carry out the duties of his office, or with the character of his lectures, or for any other reason they may consider sufficient," the Demonstrator having the right of appeal to the University Court in the event of such deprivation.

3. The duties of the Demonstrator shall be :—

(1) To deliver two Courses of Lectures—twenty in the winter, twenty in the summer session—(a) on Mineralogy and Petrology, or (b) on Palaeontology, or (c) on Physical Geography. These Lectures to be accompanied by Demonstrations on specimens selected from the Hunterian collections with the consent of the Keeper.

(2) To give Field Demonstrations of Geology and Petrology, under the direction of the Professor of Natural History (or of Geology when that Chair shall be founded).

(3) To carry on original work in any department of Geological Science which he may select, obtaining therein such assistance by specimens as the Keeper of the Museum shall find it in his power to give.

4. These Courses of Lectures may be attended (a) by matriculated students of Geology, free ; (b) by any matriculated student not a member of the class of Geology, on payment to the Demonstrator of a fee of £1 1s. for each course, or such higher fee as the University Court may fix ; (c) by any member of the Geological Society of Glasgow on payment of five shillings in lieu of matriculation fee for the winter or summer session, in addition to the authorized class fee.

5. In the event of no appointment being made, or of the Demonstrator resigning, retiring, or being deprived, the revenue accruing during the period of vacancy shall be added to the capital, and the annual income thereof to the stipend payable to the Demonstrators.

The first appointment was made in April, 1889; the next in ordinary course should have been made in April, 1892, on the results of the examinations for B.Sc., held between May, 1889, and April, 1892, but the only eligible candidate could not accept appointment in consequence of his having received another appointment.

*Demonstrator—*

GERMAN LITERATURE.

In 1887 the Senate instituted a Lectureship on German Literature. Dr. Alexander Tille has been appointed Lecturer for session 1892-93. He will deliver two Courses of Lectures, the first in English, the second in German.

The first course will treat of New-High-German (Modern German) Grammar on a historical and comparative basis, with continual reference to English. The class will meet on Tuesdays and Fridays at 3 p.m., beginning on 4th November. Fee, £2.

Of the second course extending to ten lectures the subject will be:—The last decade of German Literature, 1880-1892. It will be delivered on Thursdays at 8 p.m., from 12th January, 1893. Fee, 10s.

Non-matriculated students may attend either or both of the courses on payment of a University Fee of Five Shillings in addition to the authorized class fee.

## V.—LIBRARIES, MUSEUM, BOTANIC GARDEN.

### UNIVERSITY LIBRARY.

The University Library was founded in the fifteenth century. It contains an extensive and valuable collection of books. The Library is under the management of a Committee appointed annually from the members of Senate. The Librarian is elected by the Senate.

The Library is always increasing by donations and by a grant of £707 per annum, formerly paid by the Treasury, as compensation for the loss of the Stationers' Hall privilege, and now received from the University Court.

During recent years the Library has acquired several valuable collections. Amongst these the most important are the following :—

The Collection bequeathed to the University by the late W. EUING, Esq., amounting to about 15,000 volumes. It contains many books printed in the fifteenth and sixteenth centuries, illustrated books, English literature, Classics, above 2,000 Bibles, and a very large number of Psalm and Hymn books.

The Library of the late SIR WILLIAM HAMILTON, Professor of Logic in the University of Edinburgh, amounting to about 8,000 volumes. This Collection, which consists principally of Classics, editions of Aristotle, and treatises on Logic and Metaphysics, was purchased by private subscription and presented to the University. A list of the Subscribers was inserted in the Calendar for 1879-80.

The WALKER-ARNOTT Botanical Library of 970 volumes.

The Musical Library of the late THOMAS L. STILLIE, Esq., numbering 760 volumes. It contains the works of the chief composers, many of them in score, and an extensive series of modern operatic compositions, continental and English.

The collection of books on Palestine, which belonged to the late DR. A. B. M'GRIGOR, consisting of 655 volumes of works, illustrating the natural and civil history, topography, and antiquities of Jerusalem and the Holy Land. This collection was presented along with 83 volumes, containing about 1,000 pamphlets, by Alexander M'Grigor, Esq.

The works on Mining belonging to the late ALEX. MACDONALD, Esq., M.P.; works on Engineering from the libraries of the late Professors LEWIS GORDON and MACQUORN RANKINE; works on Oriental literature from the library of the late Professor WEIR; a large collection of medical works, theses, and pamphlets, from the late Professor ALLEN THOMSON; 800 volumes of general literature from the library of the late F. A. ECK, Esq.; over 1,000 volumes—selected from the library of the late JAMES HOTSON, Merchant—presented by Dr. THOMAS REID; and numerous works of reference for the Reading Room from the late Dr. A. B. M'GRIGOR.

Wall or table cases were given by William S. Dixon, Esq. (1); William Euing, Esq. (1); Professor Rainy, M.D. (1); Professor Sir James Robertson, LL.D. (2); and Alex. White-law, Esq., M.P. (2).

The following are the principal regulations relative to the use of the Library by the various classes of readers:—

Each Member of the Senatus Academicus is entitled to have in his possession at one time twenty-five volumes, but not more.

Retired Principals and Professors are entitled to have in their possession at one time ten volumes, but not more.

Any Assistant to a Professor, or Examiner for Degrees, to whom the Senatus Academicus shall think it expedient to grant the privileges of the Library, is entitled to have in his possession at one time ten volumes, but not more.

Each Member of the General Council is entitled, in each year in which he shall have paid a subscription to the Library of Ten Shillings and Sixpence, to have in his possession at one time four volumes, but not more. The annual subscription may be compounded for by a single payment of Five Guineas. In the case of a Member of the General Council, the year commences at 15th October.

Every person in each of the foregoing classes is entitled to retain each book for one month from the date of borrowing during the Winter Session, and for two months from the date of borrowing during Summer, and is further, after the expiration of such period, entitled to retain each book until the annual period of inspection, unless notice shall be received from the Librarian requiring the return of such book.

Every Matriculated Student enrolled in a Class is entitled, on lodging with the Librarian a deposit of One Pound, to have in his possession three volumes (in Summer, four volumes) at one time, and to retain any book for two weeks (in Summer, four weeks) from the date of borrowing; and further, to re-borrow any book for successive periods of two

weeks (in Summer, four weeks), unless application for it shall, in the meantime, have been made by another person entitled to the use of the Library.

No reader is entitled to borrow books in more than one capacity, *e.g.*, as a Student and as a Member of the General Council.

If any book, by whomsoever borrowed, be not returned within three days after notice shall be sent by the Librarian requiring the return of such book, a penalty of One Shilling a volume is incurred, and a further penalty of Sixpence a volume for each day so long as the book is not returned, until the full amount of the fine shall exceed the sum for which the book can be replaced in the Library.

The Librarian is entitled to have in his possession at one time ten volumes, but not more; and any Assistant-Librarian, to whom the Senatus Academicus shall think it expedient to grant the privilege of the Library, shall be entitled to have in his possession at one time four volumes, but not more; provided always that all books borrowed by the Librarian or by any such Assistant-Librarian as aforesaid shall be duly and regularly entered in the ordinary Record of the Library as being borrowed, in the same manner as books borrowed by other persons.

The Senatus Academicus may grant the use of the Library to such extent, and on such conditions as they shall think expedient, to persons for purposes of literary research, and that whether such persons shall be members of the University or not; provided always that no such privilege shall in any case be granted except by Minute of the Senatus specifying the grounds on which the grant is made, and the conditions which have been attached thereto, an extract of which Minute shall be forthwith transmitted to the University Court; provided also that all such persons shall pay a Subscription to the Library of Ten Shillings and Sixpence for the current year.

All grants of the use of the Library made by the Senatus Academicus, in pursuance of the preceding section, shall terminate at the annual period of inspection of the Library, but shall be renewable under like conditions, if again applied for on the expiration of that period.

Books belonging to the Library must not be privately transferred from one reader to another; and must not be lent to Graduates or Students who are not readers.

The Librarian is strictly forbidden to send books by a public conveyance, or do more than deliver books over the counter to a person properly authorized to receive them; and he is empowered, if he think fit, to decline to give out books to any one other than the reader applying in person.

The following classes of books are not given out except on an order signed by three members of Committee:—Manuscripts, Specimens of early typography, Works containing valuable engravings, Dictionaries and other works of reference (unless there is a duplicate in the Library), Maps of a larger size than 20 inches in height and breadth, loose Maps, un-

bound Music, Works with loose plates or loose letterpress, Rare Books, or Books in any way difficult to replace, Pamphlets, stitched Parts of large works, or Books not sufficiently protected by the binding.

A general inspection of the Library, and of the Record of the borrowing and returning of the books, takes place annually in April, beginning with the 15th and ending with the 22nd.

During the period of the annual inspection, the Library is closed, and all works whatsoever, and by whomsoever borrowed, must be returned to the Library before the commencement of such period, under a penalty of not less than One Shilling a volume; and in the event of any volume not being returned before the expiration of one week after the last day of the inspection, the fine is repeated weekly, until such volume is returned, or until a copy of the work of the same edition, and of equal value, shall at the expense of the borrower be placed in the Library in its stead.

So long as any person shall remain in possession of a book which he is not entitled to retain, or shall allow any fine incurred by him to remain unpaid, the right of such person to borrow or retain any books whatsoever, or to exercise any of the privileges of the Library, is suspended, and remains in abeyance.

Each person returning a book to the Library must see that the book is marked as returned opposite the corresponding entry in the Receipt Book. For every borrower is liable to replace any volume entered in the Receipt Book in his name and not so marked as returned.

The Librarian is instructed forthwith to report to the Library Committee all cases in which he shall find that books have been mutilated, disfigured by writing on the margin, or otherwise injured while in the possession of readers; and persons guilty of such offences shall be liable to replace the injured books, and shall be fined or suspended from the privileges of the Library at the discretion of the Committee.

All readers borrowing books from the Library must obtain them from, and return them to, the Assistant-Librarians in the ante-room on the days and during the hours when the Library is open.

Persons other than students who wish to consult books in the Library will be accommodated in the First Bay of the Lower Hall. Each person must enter his name and address, and the title of the work or works which he desires to consult, in a book kept for that purpose.

Visitors on giving their names will be conducted over the Library by an attendant. They are not permitted to enter the Reading-Room during the hours when it is open to students.

No person, except Members of Senate, shall otherwise be admitted to the interior of the Library without the special permission of the Curator or Librarian.

All persons, whether readers or visitors, are strictly prohibited from entering the Bays, or taking the books from their places on the shelves.

The Library is open for giving out and receiving back books every lawful day during the Winter Session, from 11 A.M. till 2.30 P.M., except

the Christmas and other Holidays specially appointed by the University, when it remains closed, and on Saturdays, when it is open from 11 A.M. till 1 P.M. During the Summer it is open on Mondays, Wednesdays, and Fridays, from 11.30 A.M. till 2 P.M.

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### CATALOGUES.

An Author and Subject Index containing the chief books likely to be interesting or useful to Students, and forming a fairly complete guide to the accessions in English of the last twenty years, may be purchased by readers in the Library at the price of One Shilling.

Students and Graduates who are engaged in special research will, on application to the Librarian, have access to the Classified Catalogues, which include also the older literature and works in foreign languages. These Catalogues have been arranged by Professor Dickson, Curator of the Library, and the expenses incurred by him in connection with their preparation have been defrayed by the late Dr. A. B. M'Grigor.

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### READING-ROOM.

In connection with the Library, a Reading-Room, provided with a special collection of books of reference for the use of Matriculated Students, is open for readers, Saturdays and holidays excepted, during the Winter Session from 9 A.M. till 3 P.M., and during the Summer Session from 9 A.M. till 2 P.M.

The Room is primarily intended for readers consulting the books of the Special Collection ; but so far as the accommodation will allow, students may make use of it for individual private study. The following are the principal rules applicable to the Room :—

Every Matriculated Student, who shall at the beginning of the Session or thereafter record (in a book kept by the Librarian) his desire to use the Reading-Room in accordance with the rules for consulting of books or private study, will receive a voucher entitling him to admission. No student will be admitted to the use of the Room without producing his voucher.

Every such student shall on entering apply for a tally entitling him to a seat, shall use it only for the table indicated thereon, and shall per-

sonally return it to the Assistant in charge. All readers are required to take at once the seats assigned to them, to abstain from talking, whispering, or any other form of distracting or disturbing others, and to enter and leave the room (and vestibule) with as little noise as possible. Readers shall exhibit their tallies when asked; and shall at once give their names and matriculation numbers, if they shall be requested to do so.

Each student, desirous of borrowing books from the Special Collection in the Vestibule, is required to fill up one of the receipt papers with his name, matriculation number, and the title of the book or books wanted, and to present it to the Assistant-Librarian in charge. Students are not permitted to have the use of more than two volumes at one time. The books received are to be used only in the Reading-Room, and are to be returned by the receiver himself into the hands of the Assistant-Librarian. The return of books by those who have to leave the room at the end of any hour is to be made not later than five minutes before that time, and during that interval no books will be given out.

Books of reference not included in the Special Collection, but contained in the General Library, may be obtained for consultation in the Reading-Room on presenting a paper with the name and matriculation number of the reader making the request, and the title of the book wanted, to the Assistant-Librarian in the Vestibule.

The Assistant-Librarian in charge is instructed to report at once to the Library Committee the name of any student transgressing the rules.

N.B.—The south corridors have been enclosed and provided with benches for the use of *other* students in the intervals of their classes.

#### *Donations to the University Library.*

#### List of Donations from 1st March, 1891, to 29th February, 1892:—

- Lords of H. M. Treasury. Exchequer rolls of Scotland. XIII. 1508-13.—Voyage of the Challenger. Deep sea deposits. 1891. Register of the Privy Council of Scotland. X. 1613-16. —Hamilton papers. II. 1543-90.—Journals of the House of Lords. 122.—Journals of the House of Commons. 145. Acts of Parliament: Public, Local, Private. 1891. Clapham Public Library.—Third report, 1889-90.
- Royal Society of New South Wales. Journal and Proceedings. XXIV. 1, 2.
- Biblioteca Nazionale Centrale di Firenze.—I codici Palatini. II. 3, 4. I codice Panciatichiani. I. 3. Elenco delle pubblicazioni periodiche italiane nel 1891. Bollettino delle pubblicazioni italiane. 123-146.
- Biblioteca Nazionale Centrale di Roma. Bollettino delle opere moderne straniere. VI. 1891.
- Royal Academy of Medicine in Ireland. —Transactions. VIII. 1890.
- Graily Hewitt, M.D. On severe vomiting during pregnancy. 1890.
- U. S. Coast and Geodetic Survey.—Annual report. 1888 and 1889. Bulletin. Nos. 19-24.

- J. Brendon Curgenven, M.R.C.S.—On the use of the oil of eucalyptus globulus. 1891.
- David K. Morris, Esq.—Notes of a thousand men. 1891.
- Colin Dunlop Donald, Esq.—Minute book of the Board of Green Cloth, 1809-20.
- Rev. James King Hewison, M.A.—Queen Mary and the Scots Church, Harvard University.—Annual reports of the President and Treasurer, 1889-90.—Bulletin, Nos. 48-51.
- Accademia dei Lincei, Roma.—Atti. Serie 4<sup>a</sup>. Memorie della classe di scienze morali. II. 1, III., IV., V., VI. 2, VII. 2.—Rendiconti. VII. 1891.
- Royal Astronomical Society.—Monthly Notices. LI.
- Royal Physical Society of Edinburgh.—Proceedings. XI. 1889-90.
- Victoria University, Manchester.—Calendar for 1891.
- Sir James D. Marwick, LL.D.—List of markets and fairs held in Scotland, 1890.
- Gavin Greenlees, Esq.—Was Jupiter the Christians' God, or was he not?
- Royal University of Ireland.—Examination papers, 1890.—Calendars for 1891 and 1892.
- Local Government Board.—Report of the medical officer for 1889.—Parsons, Report on the influenza epidemic of 1889-90.
- Rev. Alexander Robertson.—Calvin, Commentaire sur le livre des Pseaumes. 1561.
- The Curators of the Signet Library.—Catalogue of the Signet Library. Part 3rd and index. 1891.
- Cambridge Philosophical Society.—Transactions. XV. 1, 2.—Proceedings. VII. 3-5.
- M'Gill University, Montreal.—Annual report for 1890.—Faculty of Applied Science. Announcement for 1891-92.—Calendar, 1891-92.
- Elderton, Maps and map drawing. 1890.
- Illinois State Board of Health. Rauch, Medical colleges and the regulation of the practice of medicine in the United States and Canada, 1765-1891.
- The Regality Club.—Papers and illustrations. 2nd Series. Part 2.
- Dr. E. Nicaise, Paris.—Chauliac, Propos général des plaies et solutions de continuité. 1891.—De l'établissement d'un sanatorium pour les phthisiques.
- Prof. M'Call Anderson, M.D.—Cerebral tumours. By M'Call Anderson, Buchanan, and Coats. 1891.
- George Dickson, M.D.—Hamley, The war in the Crimea. 1891.
- Medical Board of Victoria.—Medical register for 1891.
- University of Vermont.—Catalogue, 1890-91.
- Prof. T. Claxton Fidler, M.I.C.E.—Study and practice of engineering. Introductory lecture, 1891.
- Prof. Dickson, D.D.—Lilley, The Lord's day and the Lord's servants. 1891.—The Sabbath: its original institution. 1891.—The Library. III.—Catalogue of the Alloa Public Library. 1889.—Reports of Stirling's Public Library, 1882-91.
- Royal Scottish Society of Arts.—Transactions. XI. 4; XIII. 1.
- Government of Netherlands-India.—Observations made at the observatory at Batavia. XII. 1889.—Regenwaarnemingen in Nederlandsch-India, 1889.
- Imperial University, Tokyo.—Mitteilungen aus der medicinischen Facultät. I. 4.—Journal of the Science College. IV. 1, 2.
- Allan Wyon, F.S.A.—The great seals of England. 1887.
- Institute of Brewing.—Transactions. IV. 1890-91.
- Mineralogical Society.—Mineralogical Magazine. Nos. 43, 44.

- University of the State of New York.—State Library bulletin. Legislation. Nos. 1, 2. Additions. No. 1. Library School. No. 1.
- Professor Robertson, D.D. Van Dyck, Elements of algebra in Arabic. 1853.
- Playfair, Elements of geometry. Translated into Arabic by C. Van Dyck. 1857. Galloway, The philosophy of the creation. 1885.—Maspéro, Life in ancient Egypt and Assyria. 1891. Dictionary of six languages. Urdu, Persian, Arabe, Sanskrit, English, and Turkish.
- Home for Inebriates Association.—Report, 1890-91.
- Marguerite d' Angoulême, The Heptameron.
- Moore, A drama in muslin. 1886.
- St. Louis Mercantile Library Association. Report, 1890 and 1891.
- Free Public Library, Liverpool.—38th annual report.
- Institution of Civil Engineers. Minutes of Proceedings. Vol. CIII.-CVI. —Charters, bye-laws, and list of members, 1891. Engineering education in the British dominions. 1891.
- University of Calcutta. Calendar for the year 1891.—Tagore law lectures, 1888 and 1889.
- Aberdeen University.—Calendar, 1891-92.
- Secretary of State for India. —Great trigonometrical survey of India. Vols. XI., XII., XIII., XIV. Catalogue of the mammalia in the Indian Museum. 1851. Catalogue of the lepidopterous insects. I., II. 1857-59. —Catalogue of birds. I., II. 1856-58. Watt, Dictionary of the economic products of India. III., IV., V.—Twenty-sixth annual report of the Sanitary Commissioner with the Government of India. 1891.—Catalogue of maps and plans of India. 1891. Epigraphia Indica. Parts 6-8.—Twenty third report of the Sanitary Comissioner of the N. W. Provinces and Oudh. 1891.—Annual report on vaccination in the N. W. Provinces and Oudh for 1890-91. Giles, Report on the causes of the diseases known in Assam as Kala-azar and Beri-beri. 1890. Geological survey of India. Records. XXIV., and Index to first twenty volumes. Memoirs. XXIV. 3. Palaeontologia Indica. Ser. XIII. Vol. IV. 2.
- The Governor of Bombay. Magnetical and meteorological observations made at Bombay, 1888 and 1889.
- College of Preceptors, London.—Calendar, 1891.
- Birmingham Library.—Report of annual meeting, 1891.
- Museu Nacional do Rio de Janeiro. Archivos. Vol. VII. 1887. Netto, Le museum national et son influence sur les sciences naturelles.
- Accademia delle scienze, fisiche, and matematiche di Napoli. Rendiconto. Ser. 2<sup>a</sup>. IV., V.—Atti. Vol. IV.
- Massachusetts Institute of Technology. Annual catalogue, 1890-91.
- T. Wharton Jones, F.R.S. State of the blood in inflammation. 1891.
- Manchester Literary and Philosophical Society. Memoirs and proceedings. IV. 3-5.
- Universidade de Coimbra.—Annuario, 1890-91.
- Edinburgh University Lecture Extension Association. Third report. 1891.
- Royal Irish Academy. Transactions. XXIX. 15-17.—Proceedings. 3rd Series. I. 5, II. 1.
- Society of Antiquaries of Scotland. Proceedings. N.S. XII. 1889-90.
- Trustees of the British Museum. —Woodward, Catalogue of fossil fishes. II. 1891. Foord, Catalogue of fossil cephalopoda. II. 1891.—Aristotle on the constitution of Athens. Faesimile of papyrus. 1891.—Lepidoptera heterocera. Part VIII. 1891. British oligocene and eocene mollusca. 1891.—Catalogue of fossil birds. 1891. Catalogue of birds. XIX. 1891.
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- Lord Kelvin.—About 400 volumes of scientific periodicals and transactions of societies, mainly Foreign ; and over 3500 memoirs, papers and pamphlets relating to various branches of natural philosophy.

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### DIVINITY HALL LIBRARY.

This Library is set apart for the special use of students in Divinity. It contains an extensive collection of Theological works. It is supported chiefly by an annual grant from the

University Court of Seven Shillings for each student attending the Divinity classes.

The Librarian is elected annually by the students attending the Hall.

#### *HUNTERIAN MUSEUM.*

This Museum, one of the most interesting possessions of the Senate, was founded by the eminent William Hunter, M.D., who was born in 1718, at Cantiswell or at Long Calderwood, in the Parish of East Kilbride, Lanarkshire. By his will, dated 1783, he bequeathed to the Principal and Professors of the College, and their successors in office, his valuable collection of books, manuscripts, coins, paintings, anatomical preparations, zoological and mineral specimens, and archaeological relics, and appropriated £8,000 for the erection of a building for their reception and preservation.

The building erected in 1804 became the property of the Union Railway Company, as explained at page 25. But accommodation has been provided for the collections in the new buildings at Gilmorehill. The Museum occupies the north side of the eastern quadrangle, and consists of two halls, the upper of which is galleried. Visitors desirous of consulting in the Museum should, if possible, arrange to come between 2 and 4 P.M. Numismatists desirous of consulting the cabinet of medals should communicate with the Keeper a few days before the date of their proposed visit.

The Museum is now open to the public from 11 to 3 in winter, 11 to 4 in summer; admission sixpence. Catalogues of the Library, Medals, and Minerals are in course of preparation.

The Keeper of the Museum, by present custom the Professor of Natural History, is appointed by the Trustees, who, in terms of Dr. Hunter's will, are the Principal and Professors of the College.

The revenue derived from the admission fee has been hitherto the only fund available for the maintenance and extension of the collection. Donors of specimens are entitled to free admission. Each matriculated student has the privilege of introducing two friends three times during the session.

*Donations to Museum 1891-92.*

The following donors have contributed to the Museum during the past year :—

ZOOLOGICAL SPECIMENS Arthur J. Hutchison, M.B., Glasgow ; Captain Henderson, Glasgow ; H. Gordon M'Dakin, Esq., Dover ; Mrs. William Thomson, Glasgow ; Norman Lamont, Esq., Knockdow ; Frank W. Steel, Esq., Greenock ; Mr. John Mackay, Hunterian Museum.

MINERAL, FOSSIL, AND GEOLOGICAL SPECIMENS Marcus Bain, Esq., Ballochmyle ; Evan Parry, Esq., Student ; Robert Milne, Esq., Edinburgh ; Dr. M. Foster Heddle, St. Andrews ; Frank W. Steel, Esq. ; James Dairon, Esq., Glasgow ; D. Corse Glen, Esq., Glasgow ; Prof. F. O. Bower, University ; Surgeon-General G. Bidie, Ceylon ; Miss Edith M. H. Gray, Edinburgh ; Prof. Arthur Thomson, C.E., Poonah ; Mr. Thomas Steel, Glasgow ; Mr. John Young, Hunterian Museum ; Mr. John Smith, Kilwinning ; Dr. D. Forsyth, Leeds.

ETHNOLOGICAL SPECIMENS—James Laurie, Esq., Bellfield, Lanark.

The most important addition during recent years has been the collection of the late F. A. Eck, Esq., formerly of Hollybush. During a long residence in South America, and afterwards while resident in Britain, Mr. Eck formed a splendid collection of minerals, numbering in all over 3,000 specimens. The minerals of Peru, Chili, Guatemala, New Grenada, Mexico, and California, are richly illustrated, while the European series of over 1,200 specimens is also representative. There are besides a fine series of polished precious stones, and also specimens of the old Mexican and Peruvian Pottery, and of modern carved work. This splendid gift—along with the handsome cabinets in which the specimens are contained—the largest since Miss Brown, of Lanfine, presented in 1875 one half of her late father's mineral collection, is due to the generosity of Mr. Eck's family, who have enjoined that the collection be kept apart and used, so far as possible, to aid the teaching of mineralogy. In February 1888, the Council of the West of Scotland Technical College made over to the Hunterian Museum the Zoological and Ethnological collection of the Andersonian University, later known as Anderson's College, and now merged in the Technical College, the Council requiring the space for illustrations of the lectures given under their direction. The collections, which are of very great value and extent, were largely due to the generosity of the naturalists and merchants of Glasgow, to whom the Hunterian Museum is also under great obligations. The collection of birds formed by the late John Alexander, Esq., Dowanhill, was presented by Messrs. W. J. Chrystal and J. Gibson Fleming.

*BOTANIC GARDEN.*

A piece of ground adjoining the old College was for many years set apart as a Botanic Garden, for the use of the Lecturer on Botany ; but the great increase of manufactories and other buildings in its vicinity having rendered it unfit for such a purpose, the University, in 1817, agreed to subscribe £2,000 towards the formation of a new Botanic Garden then projected by the citizens of Glasgow, on condition that a Lecture-Room should be erected within it for the exclusive use of the Professor of Botany and his pupils—that every facility should be given them in prosecuting the study of Botany—and that three Directors of the Institution should be annually appointed by the Faculty of the College, to represent and protect the interests of the University. The Garden to which this agreement referred was completed and opened to the public in 1819. A Lecture-Room, in which the Professor of Botany delivered an annual course of lectures during the summer months, was built ; and the collection of plants, from the zeal and ability of the Superintendent, and the favourable situation of Glasgow, had become one of the richest and most valuable in the island. The extension of the town again compelled the removal of the Garden to its present site in Hillhead, at a greater distance from the old College, so that the Professor, while he continued to give in it the practical portions of the course (*Demonstrations*), found it more convenient to deliver his Lectures at the College. The removal of the College to Gilmorehill brought it nearer the Botanic Garden, but the Lecture-Room in the Garden being inadequate for the students attending the course of Elementary Lectures on Botany, and there being no Laboratory, Museum, or Herbarium Room in the Garden, the Professor has continued, though at great inconvenience, to deliver his elementary Lectures and to have his Laboratory at the College. The advanced Lectures delivered during the winter have, however, been given in the old Lecture-Room, within the Garden. It is desirable that the accommodation in the Botanic Garden be increased so that the elementary lectures as well as the advanced lectures and the practical demonstrations may be given in the Garden, that the Botanical Laboratory be established there also, and that the Herbarium and Museum be lodged alongside of the Lecture-Room.

*VI.—GRADUATION IN THE SEVERAL  
FACULTIES.*

*EXAMINERS FOR DEGREES.*

**Degree in Arts.<sup>1</sup>**

The Examiners for the Degree of Master of Arts, without Honours, are the Professors whose classes are embraced in the prescribed course of study, and in addition, Three Persons, not being Professors or Assistant-Professors in any Scottish University, appointed by the University Court, and in the appointment of whom regard is had to their eminence in Classical Literature, Mental Philosophy, and Mathematical Science.

The Examiners appointed by the University Court are appointed for a term of three years, but the appointment of any Examiner, during the currency of his term of office, to a Professorship or Assistant-Professorship in any Scottish University, is held to vacate his office of Examiner; and in the event of a vacancy in the office of Examiner occurring otherwise than by the expiration of his term of office, the Examiner appointed by the University Court, in his room, is appointed for the remainder of such term only.

No person who has been appointed to the office of Examiner for the period of three years, is eligible for re-appointment to the office of Examiner in the same University, until he has ceased to hold the office of Examiner in such University for not less than one year.

The Examiners for Graduation with Honours are the same Professors and additional Examiners as for Graduation without Honours; in the examination of candidates for Honours in the Department of Natural Science, there are added the Professors of Natural History, Chemistry, and Botany; and the University Court may, if they think fit, appoint an additional Examiner, skilled in Natural Science, not being a Professor or Assistant-Professor in any Scottish University.

No person is eligible for appointment to the office of Examiner who is not a member of the General Council of one or other of the Scottish Universities.

**Degrees in Science.<sup>2</sup>**

The Examiners for Degrees in Science in those subjects not included in the curriculum for M.A., are the Professors in the several departments.

<sup>1</sup> See Appendix VI, p. 489. New Ordinance as to Examinations, Sections II., XIV.. XVIII., XXI.

<sup>2</sup> See Appendix VI., p. 489. New Ordinance as to Examinations, Sections II., XV.. XVIII., XXI.

**Degrees in Medicine.<sup>1</sup>**

The Medical Examiners for Graduation in Medicine are the Professors in the Faculty of Medicine (including the Professor of Natural History), and, in addition, not fewer than six persons, appointed by the University Court, who are selected from among the Fellows of the three following bodies, namely : the Royal College of Physicians of Edinburgh, the Royal College of Surgeons of Edinburgh, and the Faculty of Physicians and Surgeons of Glasgow, or persons otherwise fully qualified in the judgment of the University Court.

The examinations in extra-professional education are conducted under the superintendence of the Examiners in Arts (who may be Professors), together with some of the Medical Examiners.

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**Degrees in Law.**

The Examiners for the Degree of Bachelor of Laws are the Professors in the Faculty of Law and three additional Examiners appointed by the University Court, who are Professors in the Faculty of Law in a Scottish University, or who have obtained the Degree of Bachelor of Laws in accordance with the provisions of Ordinance of the Universities Commissioners, No. 75.

The Examiners for the Degree of Bachelor of Law are the Professors in the Faculty of Law, together with two additional Examiners appointed by the University Court from among Graduates of Law of any of the Universities of Scotland. Each of such additional Examiners holds office for the term of three years.

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**Degrees in Divinity.**

The Examiners for the Degree of Bachelor of Divinity are the Members of the Divinity Faculty.

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**REGULATIONS FOR GRANTING DEGREES.****I. GRADUATION IN ARTS.****Preliminary Examination.<sup>2</sup>**

Before entering on the Curriculum, each student must pass the Preliminary Examination in Arts, the fee for which is half a guinea. This examination will be held on *Tuesday, the 18th October, 1892, and three following days*, beginning at 10 A.M. on each day.<sup>3</sup>

<sup>1</sup> See Appendix VI., p. 489. New Ordinance as to Examinations, Sections II., XVI., XVIII., XXI.

<sup>2</sup> See New Ordinance for Degrees in Arts, Sections III., IV., V., in Appendix VI., p. 478.

<sup>3</sup> Any alteration on the date of Examination, consequent on the passing of the new Ordinance, will be afterwards intimated.

The subjects of the Preliminary Examination are detailed in the new Ordinance for Degrees in Arts, Section III. See Appendix VI., p. 478.

\*\* The Examination Questions for 1891 are given in the *Calendar*. The Preliminary Examination is combined with the Examination for the Competition Bursaries.

Names of Candidates, with Fees, to be given in to the Assistant-Clerk (Matriculation Office) not later than October 11th.

#### Degree of Master of Arts.

Any student who, previous to 1st Octooper, 1892, has commenced his course of study with a view to graduation in Arts in this University, under the regulations then in force, may complete his course and become a candidate for the degree of Master of Arts, with or without Honours, in conformaty with such regulations. And any such student who has passed the examination hitherto required for admission to a curriculum of three sessions is, if he desire to come under the regulations of the new Ordinance for degrees in Arts, exempted from the Preliminary Examination prescribed by that ordinance.

#### Regulations under the Act of 1858.

I. The Course of Study necessary for the Degree of Master of Arts extends over four Winter Sessions, and includes attendance for not less than two sessions on the classes of Humanity, Greek, and Mathematics respectively, and attendance for not less than one session on the classes of Logic, Moral Philosophy, and Natural Philosophy respectively, and also attendance on a course of English Literature ; but any student who, at the time of his entrance to the University, shall satisfy the Professors in the Faculty of Arts, on examination, that he is qualified to attend the higher classes of Latin, Greek, and Mathematics, or any of them, is admitted to such higher class or classes, without having previously attended the first or junior class or classes in the same department or departments ; and in the case of students who are, after such examination, admitted to the higher Greek and Latin classes, the course of study for the Degree of Master of Arts may be completed within three winter sessions instead of four.<sup>1</sup>

Two sessions of the lowest class of Humanity, or Greek, or Mathematics, do not constitute two sessions of one of these classes, within the meaning of Ordinance No. 14.

A student found qualified at the Preliminary Examination to attend the Senior class of Humanity, or Greek, or Mathematics, must

<sup>1</sup> For this Examination is now substituted the Preliminary Examination mentioned above. See second note on page 115.

attend such Senior class in order to qualify for the Degree without more than one session's attendance on such class.

II. In pursuing the course of study for the Degree of Master of Arts, no student is permitted to pass from the junior to a higher class in any department, unless the Professor is satisfied of his fitness to enter the higher class.

III. Any student who has completed the required attendance on the Latin and Greek Classes, may be examined on those subjects at any examination for Degrees, although he has not completed his attendance on the other classes of the prescribed course ; and, in like manner, any student who has completed the required attendance on the classes of Logic and Moral Philosophy, and course of English Literature, may be examined on these subjects at any examination for Degrees, although he has not completed his attendance on the other classes of the prescribed course ; and, in like manner, any student who has completed the required attendance on the classes of Mathematics and Natural Philosophy, may be examined on these subjects at any examination for Degrees, although he has not completed his attendance on the other classes of the prescribed course ; and, if such student shall satisfy the Examiners, when so examined in Latin and Greek, or in Logic, Moral Philosophy, and English Literature, or in Mathematics and Natural Philosophy, he is entitled to receive from them a certificate to that effect, and he is not again examined on the same subjects, as a condition of his taking the Degree of Master of Arts.

IV. Students who have passed satisfactorily an examination or examinations on the several subjects embraced in the prescribed course of study, are entitled forthwith to receive the degree of Master of Arts without Honours ; but they may, before taking a Degree, offer themselves for a farther examination, with a view to Graduation with Honours<sup>1</sup> : Provided always, that any student who desires to offer himself for examination, with a view to Graduation with Honours, in any one or more departments, may proceed to such examination without having previously passed the examination in such department or departments for the Degree of Master of Art, without Honours ; and if such student, in the opinion of the Examiners, fails to attain the standard for Honours in any department, but attains to the standard of the examination for Graduation without Honours, he shall be held to have passed in that department for the Degree of Master of Arts without Honours, but if in any such department he fails to attain to the standard of the examination for Graduation without Honours, he shall not be entitled, until he shall

<sup>1</sup>The provisions with regard to Honours contained in this and the following sections are applicable only to those who began their curriculum before session 1892-93.

have passed in that department, to the Degree of Master of Arts :<sup>1</sup> Provided also, that no person shall be admitted to examination for Honours after he has ceased to be a matriculated student in attendance on a class or classes in the University for more than one winter session, unless he has been prevented from offering himself by ill-health or other sufficient cause.<sup>2</sup>

V. There are four departments, in any one or more of which candidates for Graduation with Honours may offer themselves for examination, viz. :—

- A. Classical Literature ;
- B. Mental Philosophy, including Logic, Metaphysics, and Moral Philosophy ;
- C. Mathematics, including Pure Mathematics and Natural Philosophy ; and
- D. Natural Science, including Botany, Geology, Zoology, and Chemistry.

VI. In each of the first three of the above-mentioned departments —viz., in Classical Literature, in Mental Philosophy, and in Mathematics—there are two grades of honour, denominated respectively the First Class and the Second Class; but in the department of Natural Science there is one class of Honours only; and the names of the candidates entitled to honours in each class, in the several departments, are arranged, when publicly announced, in alphabetical order.

VII. It is in the power of any student, who has given attendance during one or more sessions on the course of study in any other *Scottish* University, to complete his course of study, and proceed to the degree of M.A. in this University : Provided always, that every such student shall produce, to the satisfaction of the Senatus Academicus of this University, testimonials of his attendance at the former University, and shall be examined in all the departments necessary for the degree of Master of Arts by the Examiners of this University : Provided also, that no student shall be admitted to a Degree in this University unless he has given attendance in this University during the last two sessions of his course.

VIII. The Degree of Master of Arts is in no case conferred except on persons who have complied with the conditions hereinbefore set forth, and is in no case conferred *honoris causa tantum*.

<sup>1</sup> The above change in the ordinance regulating the examination for Graduation with Honours was approved by Her Majesty in Council, June 4th, 1870. By minute of Senate, of date November 27, 1873, with reference to this change in the ordinance, a student is allowed to go in for honours in any department, whether or not he has completed his curriculum, provided that he has sufficiently attended the classes in the department in which he offers himself, but no certificate of passing with Honours is given till the Degree is conferred.

<sup>2</sup> By minute of date 28th November, 1872, the Senate resolved that the power conferred on them of dispensing with the above regulation "will not be exercised except in the case of the applicant having been precluded from attendance by ill-health, or very peculiar circumstances, quite beyond the applicant's control; attendance at another University not to be considered such."

IX. Every student who, previous to the commencement of session 1861-62, had completed a part of his course with a view to Graduation in Arts, under regulations in force at the time, and who shall hereafter complete his course of study in conformity with such regulations, may become a candidate for the Degree of Master of Arts without complying with the present regulations, so far as they relate to the course of study for that degree, provided he pass the examination or examinations required by the present regulations.

X. Each candidate for the Degree of Master of Arts is required to pay a Fee of One Guinea in respect of each of the three departments of the Examination for Graduation without Honours; each such Fee of One Guinea being payable at the time at which the candidate comes forward to be examined in that department in respect of which it is payable; and no further Fee than the sum of Three Guineas is payable by any candidate in respect of examination for the said degree, whether with or without Honours.

XI. The Examinations for the Degree of Master of Arts are held in April and October (in 1892-93, commencing October 22nd and April 8th); and the graduation takes place towards the end of April, and in November. Applications for examination must be lodged with the Assistant-Clerk (Matriculation Office), on 1st October, 1892, and 10th March, 1893, respectively.<sup>1</sup> The subjects and the dates of examination are set forth in the accompanying tables. See pp. 120-124.

Candidates for the ordinary degree of Master of Arts may follow the curriculum and take their degree in the subjects hitherto recognized for graduation, as provided by the preceding regulations, subject always to the provisions contained in Sections I., II., III., IV., V., of the new Ordinance for Degrees in Arts; or they may vary the curriculum for graduation under the regulations contained in Sections VI., VII., VIII., IX., X., of the new Ordinance.

#### Regulations under the Act of 1889.

These regulations are printed in full in Appendix VI., pp. 477-485.

<sup>1</sup> When Names are not given in and Fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the Candidate can be admitted to examination. A Candidate is not held to be entered for the examination until his Name is entered, the Fee paid, and all the necessary certificates, etc., lodged.

**TABLE OF SUBJECTS OF EXAMINATION FOR THE DEGREE OF MASTER OF ARTS, ACCORDING TO  
THE DIFFERENT CLASSES OF DISTINCTION WHICH CANDIDATES MAY HAVE IN VIEW.**

The Examination Questions prescribed in April, 1892, in the several Departments and Subjects will be found towards the end of the Calendar.

IN	FOR ORDINARY DEGREE.	FOR HONOURS.		
LATIN	<p>VIRGIL, <i>Æneid</i>, Book XII. HORACE, <i>Odes</i>, Books II., III. HORACE, <i>Epistles</i>, Book I. TACITUS, <i>Annales</i>, Book I. Any one of the following: (a) CICERO, any oration or orations of not less than 40 chapters; (b) CICERO'S <i>Epistles</i>, any 40 consecutive pages (Prichard &amp; Bernard's Selection); (c) any Book of LIVY. ROMAN ANTIQUITIES and ROMAN HISTORY from B.C. 133 to B.C. 31 (<i>Students' History of Rome</i>, Books VI., VII). Unseen translation. Latin Prose Composition and Grammar.</p> <p><i>For April and October</i>, 1892.</p> <p>VIRGIL, <i>Æneid</i>, Book VIII or XII. HORACE, <i>Odes</i>, Books II., III. HORACE, <i>Epistles</i>, Book I. or II., with <i>Ars Poetica</i>. TACITUS, <i>Annales</i>, Book I. Any one of the following: (a) CICERO, any oration or orations of not less than 40 chapters; (b) CICERO'S <i>Epistles</i>, any 40 consecutive pages (Prichard and Bernard's Edition); (c) any Book of LIVY. ROMAN ANTIQUITIES and ROMAN HISTORY from B.C. 133 to B.C. 31 (<i>Students' History of Rome</i>, Books VI. and VII). Unseen translation.</p>	<p><i>For October, 1892</i>, 1, and afterwards till further notice.</p> <p style="text-align: center;">VERSE.</p> <table border="0"> <tr> <td style="vertical-align: top;">           VIRGIL, <i>Æneid</i> VII.—XII.            HORACE, the Odes and Satires.            Any two (or more) of the following combinations :            (a) LAURETTUS, Books I., II. with a Play of Plautus.            (b) JUVENAL (the whole excepting Sat. II., VI., and LX).            (c) PERSEUS, with SELLAR'S Selections from MARTIAL, Books I.—IV.            (d) CATULLUS (STRONG'S Selection) and PROPERTIUS (RAMSAY'S Selection). </td> <td style="vertical-align: top;">           CICERO, the <i>Philippic Orations</i>, I.—VI., or any oration of CICERO, or any consecutive portion of CICERO'S <i>Epistles</i> (Muirhead's or Prichard and Bernard's Selections) of at least equal length.            LIVY, I.—III., or XXI.—XXXII.            TACITUS, <i>Annales</i>, Books I.—IV.            With Latin Composition, History, and Antiquities, &amp;c. Passages also from Books not prescribed will be set.            Candidates may profess any extra books they please.         </td> </tr> </table>	VIRGIL, <i>Æneid</i> VII.—XII. HORACE, the Odes and Satires. Any two (or more) of the following combinations : (a) LAURETTUS, Books I., II. with a Play of Plautus. (b) JUVENAL (the whole excepting Sat. II., VI., and LX). (c) PERSEUS, with SELLAR'S Selections from MARTIAL, Books I.—IV. (d) CATULLUS (STRONG'S Selection) and PROPERTIUS (RAMSAY'S Selection).	CICERO, the <i>Philippic Orations</i> , I.—VI., or any oration of CICERO, or any consecutive portion of CICERO'S <i>Epistles</i> (Muirhead's or Prichard and Bernard's Selections) of at least equal length. LIVY, I.—III., or XXI.—XXXII. TACITUS, <i>Annales</i> , Books I.—IV. With Latin Composition, History, and Antiquities, &c. Passages also from Books not prescribed will be set. Candidates may profess any extra books they please.
VIRGIL, <i>Æneid</i> VII.—XII. HORACE, the Odes and Satires. Any two (or more) of the following combinations : (a) LAURETTUS, Books I., II. with a Play of Plautus. (b) JUVENAL (the whole excepting Sat. II., VI., and LX). (c) PERSEUS, with SELLAR'S Selections from MARTIAL, Books I.—IV. (d) CATULLUS (STRONG'S Selection) and PROPERTIUS (RAMSAY'S Selection).	CICERO, the <i>Philippic Orations</i> , I.—VI., or any oration of CICERO, or any consecutive portion of CICERO'S <i>Epistles</i> (Muirhead's or Prichard and Bernard's Selections) of at least equal length. LIVY, I.—III., or XXI.—XXXII. TACITUS, <i>Annales</i> , Books I.—IV. With Latin Composition, History, and Antiquities, &c. Passages also from Books not prescribed will be set. Candidates may profess any extra books they please.			

<sup>1</sup> N.B.—The Examination for Honours in Classics and for Classical Fellowships will commence upon Saturday, October 22nd, at 3 p.m. (instead of on the Monday as formerly).

*October, 1892; and afterwards till further notice.*

*October, 1892, and April and  
HOMER, Od., IX, or Iliad, XVI or  
XXII.  
AESCHYLUS, Prometheus, or  
Oedipus, or Socrates, Aet.  
I, or Aristophanes, Eccles.,  
Inventans IV, I, II.  
Plato, Apology; or Aristotle,  
Ptoleos, Cap. I-XIII, inclusive,  
omitting XX and XXI.  
Insen. translation and com-  
position.*

*History of Greece; either Chap.  
I-XX in Oman's History; or Chap.  
XVI-XXXV (e.g., 178-304 B.C.).  
Questions on Greek Grammar,  
Literature, History, and Antiqui-  
ties.*

*GREEK  
Inst. m.s. of Logic, except chapters  
V, XIII, XX, XXV (Large Print  
only).*

*The Professor's Lectures, and  
Inst. m.s. of Logic, except chapters  
V, XIII, XX, XXV (Large Print  
only).*

*LOGIC*

*October, 1892; and afterwards till further notice.*

Any two of the following five groups, i.e., an amount equivalent to four plays in all.

1. Absentias, Two plays of the *Orestiea*.
2. Sophocles, Two plays selected from the *Oedipus Tyrannus*, *Oedipus Colonus*, *Antigone*.
3. Euripines, two plays selected from the *Phoenissae*, *Iphigenia in Aulide*, *Hippolytus*.
4. Aesopae, two books of the *tales*.
5. Thucydites, the whole as in Snow's edition.

Thucydiptes, four books. [But see below.]

Either 1. Plato, two of the following Dialogues: *Phaedo*, *Protogoras*, *Gorgias*, *Thaetetus*, *Meno*;

or 2. Aristotle, *Poetics*, Books I, II, III, or IV, V, VI (as numbered in Bekker's text; or *translation of Arias and Proteros*.

*Greek Composition. Questions in Greek Grammar, Literature, History, and Antiquities.*

Candidates will be required to show a thorough acquaintance with the subject matter, as well as with the text, of the books. In and after April, 1892, candidates, while expected to translate accurately all the books which they profess, will be required to offer three Special Books, in which they will be asked to comment on particular words, passages and questions of text. They may then profess two books of Thucydites instead of four. The special books may be chosen from the following, one of the three being always prose, and one poetry:—Aeschylus, *Choephorae*; Sophocles, *Antigone*; Homer, *Odyssey*, IX-XII; Thucydites, IV; Plato, *Apology*; Aristotle, *Poetics*. A pure and accurate English style in translation is considered of the highest importance. Candidates for Second Class Honours only may profess an amount equivalent to at least *one-half* of each of the authors, Greek or Latin, prescribed above, with or without special books.

In addition, (a) Pre-Socratic systems. The Theætetus; (b) Descartes, the Method, Meditations and Principles of Philosophy (Fraser's Selections, 1879); Berkeley (Fraser's Selections, 1879); Locke's Essay, Books II and III; Hume, Enquiry Concerning Human Understanding; Reid, Essays on the Intellectual Powers, II, III, VI, with Hamilton's Notes and Supplementary Dissections to Reid; Hamilton's Discussions (Logic, Perception, Causism and Philosophical Appendix). (c) Kant's Critique of the Pure Reason; Stilman's Kant Lotze and Ritschl, pp. 1-182. The General Principles and Methods of Fichte, Schelling, Hegel, Lotze; Hoffding's Outlines of Psychology (translated by Lowndes, 1891). (d) Institutes of Logic (Large and Small Print); Mill's Logic, Books III and IV. (e) Questions on the History of Philosophy—Reference to Ueberrweg,

## FOR ORDINARY DEGREE.

**MORAL  
PHILOSOPHY**

The Professor's Lectures during the session in which the student examined has attended the Moral Philosophy Class; and the text-book, if any, used in the Class during that session.

*October, 1892.*

1. For students who attended in Session 1891-92 :—(1) English Composition, and (for Senior Class) English Philology ; (2) History of English Poetry, literature during the age of Shakespeare, with special reference to *Hamlet*, *Macbeth*, *Cymbeline*, *As You Like It*, and Nimmo's *British Dramatists* (omitting *Every Man in his Honour*), *Knight of the Burning Pestle*, *Timon of Athens*, and the plays by Ford and Shirley; (3) (a) Chaucer's *Prologue* (Clarendon Press), (b) Arnold's *Ancient Mariner*, *Christabel*, Odes on *France* and *Diction*.
2. For students of session 1890-91 :—(1) as above ; (2) History of English Poetry, from Thomson to death of Byron ; (3) (a) Shakespeare's *Julius Caesar*, ed. Berchling ; (b) *In Memoriam*, especially sections 1-56 and 104 to the end, or Coverley Papers from *Spectator*, ed. Salmon.

Students of sessions prior to 1890-91, can take either paper.

*April and October, 1893.*

1. For students of session 1892-93 ; the subjects specified on p. 65.
2. For students of session 1891-92 ; the subjects of that session specified above. Students of Sessions prior to 1891-92, can take either paper.

**MATHEMATICS**  
Euclid, First Six Books, Algebra, including Quadratic Equations, Progressions, and Binomial Theorem for Positive Integers. Plane Trigonometry, including the Solution

## FOR HONOURS.

Candidates for Honours will be examined on the History of Ancient and Modern Philosophy, as well as on Moral and Political Philosophy. They are required to show accurate knowledge of the following books :—(1) Plato's *Hippias*; (2) Aristotle's Ethics ; (3) Spinoza's Ethics ; (4) Watson's Selections from Kant's Critiques of Pure and Practical Reason ; (5) Green's Prolegomena to Ethics.

They are also recommended to study such works as Hegel, as translated and illustrated by Dr. Stirling and Mr. Wallace, Maine's Ancient Law, Green's Hume, Lotze's Microcosmus, Bradley's Ethical Studies, Spencer's Data of Ethics and Sociology, and Shrigwick's Methods of Ethics; but they will not be specially examined on these books.

**ENGLISH  
LITERATURE**

IN

**Second Class.**—In addition, Euclid XI. 1 to 21; Higher Algebra; Plane Trigonometry; Analytical and Geometrical Conics, and Differential and Integral Calculus so far as treated in the Senior Mathematical Class.

**First Class.**—In addition, Spherical Trigonometry, Solid

## FOR HONOURS

## FOR ORDINARY DEGREE.

IN	FOR ORDINARY DEGREE.	FOR HONOURS
<b>NATURAL PHILOSOPHY</b>	Examination on the Subjects explained in the Class, including Astronomy. On the Elements of Statics and Dynamics, with the solution of Problems not requiring the Differential or Integral Calculus; Experimental Science, including Sound, Light, Heat, Electricity, and Magnetism.	<i>Second Class.</i> —Thomson and Tait's Elementary Treatise on Natural Philosophy; Maxwell or Balfour Stewart on Heat; Donkin on Sound; Central Forces. The subject of special course on Mathematical Physics for session of attendance. <i>First Class.</i> —In addition, Portions of Thomson and Tait's Natural Philosophy (large work) to be professed; also, either Fourier's Théorie Analytique de la Chaleur, or the Mathematical theory of one of the following subjects, Electricity, Magnetism, Light, Sound, Elasticity of Solids.
<b>BOTANY</b>	—	Morphology, Physiology, and Taxonomy.
<b>CHEMISTRY</b>	—	General Principles. Physical Chemistry. Text-Books recommended—Miller's Elements, 3 vols.; Roscoe and Schorlemmer's Treatise; Schorlemmer's Carbon Compounds; Armstrong's Organic Chemistry.
<b>GEOLOGY</b>	—	Prestwich's Geology; Green's Geology, vol. I., with Lyell's Student's Manual; Dana's Manual of Geology; Young's Physical Geography.
<b>ZOOLOGY</b>	—	Huxley's Manuals of the Invertebrata and Vertebrata. Macalister's Animal Morphology. Claus, Zoology.

*N.B.*—Candidates will be examined in the last four subjects by the aid of Specimens.

## UNIVERSITY OF GLASGOW.

TABLE OF EXAMINATIONS IN THE SUBJECTS FOR THE DEGREE OF M.A., FOR THE CERTIFICATE OF L.A., AND  
FOR THE DIPLOMA FOR TEACHERS, TO BE HELD DURING SESSION 1892-93.

Department.	Names to be given in and Fees paid to (Matriculation Office). Date.	Fee.	Subjects of Examination.	Dates of Written Examinations and Hours at which the different papers will be set.
CLASSICAL	1st Oct. or 10th March	£1 1s.	Latin and Greek,	October, 1892. Saturday, 22nd October, at 3 p.m. 1 Monday, 24th October, 10-12, 1-3, and 4-6 p.m. Tuesday, 25th October, 10-12 and 1-3 p.m. Thursday, 27th October, and following days at 11 a.m. (Orals).
PHILOSOPHICAL	Do. do.	£1 1s.	English Literature, Logic, - - - Moral Philosophy, -	Saturday, 22nd October, at 10 a.m. Wednesday, 26th October, at 10 a.m. Thursday, 27th October, at 10 a.m.
MATHEMATICAL	Do. do.	£1 1s.	Mathematics, - Natural Philosophy, -	Friday, 28th October, 10-1 and 2-5 p.m. Saturday, 29th October, 10-1 and 2-5 p.m.
				Saturday, 8th April, at 10 a.m. Wednesday, 12th April, at 10 a.m. Thursday, 13th April, following days at 11 a.m. (Orals).
				Saturday, 8th April, at 3 p.m. Monday, 10th April, 10-12, 1-3, and 4-6 p.m. Tuesday, 11th April, 10-12 and 1-3 p.m. Thursday, 13th April, and following days at 11 a.m. (Orals).
				Saturday, 8th April, at 10 a.m. Friday, 14th April, 10-1 and 2-5 p.m. Saturday, 15th April, 10-1 and 2-5 p.m.

<sup>1</sup> Honours paper only.

**Certificate of Literate in Arts.**

In 1880 the University Court, after communication with the Senate and the General Council, and with the sanction of the Chancellor, instituted a certificate conferring the title of "Literate in Arts."

The following are the regulations for granting this certificate :—

1. The Certificate of Literate in Arts is open to all persons who have been public students in the Faculty of Arts for not less than two Sessions, and who during that time have given attendance at least five of the classes included in the course of study for the M.A. Degree.

2. No student is permitted, with a view to the Certificate of Literate in Arts, to reckon attendance on more than two of the classes included in any one of the three departments of the Arts course, *i.e.*, Classical Literature, Mental Philosophy, and Mathematics.

3. The examination for the Certificate may be taken at one, two, or three periods, at the option of the candidate, and either in April or in October ; but in no case can the examinations included in any one department be separated from each other. Candidates presenting more than one subject included in one department must pass in both at the same time.

4. The examinations and standard of proficiency required for the said Certificate are, in respect of the classes attended, the same as those demanded in the subjects belonging to the same classes for the I.A. Degree : and the examination papers will be the same as those in the corresponding subjects for that Degree.

5. When all the subjects are taken at one examination the fee is £ 2 2s. ; when the examination is divided, the fee is £1 1s. for the examination in the department first taken, and £1 1s. for that taken next ; but no fee paid with a view to the said Certificate shall be accepted as *pro tanto* payment towards the fee exigible for the I.A. Degree.

6. Not less than three of the five classes constituting the attendance required for the Certificate, and in all cases the last year of the course must have been taken in the University of Glasgow. All the examinations must be passed in this University.

7. The Certificate of Literate in Arts is not open to students whose qualifications for the Certificate are entirely of a date anterior to April, 1880.

The subjects of Examination for the Certificate of Literate in Arts are as follows :—

**DEPARTMENT OF CLASSICS.**

*Latin, for October, 1892.*

Virgil, *Aeneid*, Book XII.

Horace, *Odes*, Books II., III.

Horace, *Epistles*, Book I.

Tacitus, *Annals*, Book I.

Any one of the following :—

- (a) Cicero, any oration or orations of not less than 40 chapters ;
- (b) Cicero's *Epistles*, any 40 consecutive pages (Prichard and Bernard's Selection) ;
- (c) Any Book of Livy.

A piece of unseen translation will be added.

*Roman Antiquities* and *Roman History*, from B.C. 133 to B.C. 31  
(*Students' History of Rome*, Books VI. and VII.).

Latin Prose Composition and Grammar.

*Latin, for April and October, 1893.*

Virgil, *Aeneid*, Book VIII. or XII.

Horace, *Odes*, Books II., III.

Horace, *Epistles*, Book I.

Tacitus, *Annals*, Book I. or II. with *Ars Poetica*.

Any one of the following :—

- (a) Cicero, any oration or orations of not less than 40 chapters ;
- (b) Cicero's *Epistles*, any 40 consecutive pages (Prichard and Bernard's Edition) ;
- (c) Any Book of Livy.

A piece of unseen translation will be added.

*Roman Antiquities* and *Roman History*, from B.C. 133 to B.C. 31  
(*Students' History of Rome*, Books VI. and VII.).

Note.—Proficiency in Latin Prose Composition and in Grammar is required.

A knowledge of the matter of the books read is required, so as to enable a student to explain and comment on the text, and explain allusions.

*Greek, for October, 1892, and April and October, 1893.*

Homer, *Odyssey*, Book IX., or *Iliad*, Book XVI. or XXII.

Aeschylus, *Prometheus* or *Choephoroi*; or Sophocles, *Antigone*; or Aristophanes, *Eirene*.

Thucydides, Book IV., 1-41.

Plato, *Apology*; or Aristotle, *Poetics*, chapter I.-XXIII., inclusive, omitting XX. and XXI.

Unseen translation and Composition.

History of Greece; either chap. I.-XX. in Oman's *History*; or chap. XXI.-XXXV. (i.e. 478-404 B.C.).

Questions on Greek Grammar, Literature, History, and Antiquities.

## B. DEPARTMENT OF MENTAL PHILOSOPHY.

*Logic.*

The Professor's Lectures, and *Institutes of Logic*, except chapters V., XIII., XX., XXV. (Large Print only).

*Moral Philosophy.*

The Professor's Lectures during the session in which the student examined has attended the Moral Philosophy Class; and the text-book, if any, used in the class during that session.

*English Literature.*

*October, 1892.*

1. For students who attended in Session 1891-92 :—(1) English Composition, and (for Senior Class) English Philology; (2) History of English

Poetical Literature during the age of Shakespeare, with special reference to *Hamlet*, *Macbeth*, *Cymbeline*, *As You Like It*, and Nimmo's *British Dramatists* (omitting *Every Man in his Humour*, *Knight of the Burning Pestle*, *Virgin Martyr*, and the plays by Ford and Shirley); (3) (a) Chaucer's *Prologue* (Clarendon Press), (b) Arnold's Selections from Wordsworth, or Coleridge's *Ancient Mariner*, *Christabel*, Odes on *France* and *Dejection*.

2. For students of session 1890-91: (1) as above; (2) History of English Poetry, from Thomson to death of Byron; (3) (a) Shakespeare's *Julius Caesar*, ed. Beeching; (b) *In Memoriam*, especially sections 1-56 and 104 to the end, or Coverley Papers from *Spectator*, ed. Salmon.

Students of Sessions prior to 1890-91, can take either paper.

*April and October, 1893.*

1. For students of session 1892-93: the subjects specified on p. 65.
2. For students of session 1891-92; the subjects of that session specified above.

Students of sessions prior to 1891-92 can take either paper.

#### DEPARTMENT OF MATHEMATICS.

*Mathematics.*

Euclid, First Six Books.

Algebra, including Quadratic Equations, Progressions, and Binomial Theorem for Positive Integers.

Plane Trigonometry, including the solution of Triangles by the aid of Logarithmic Tables.

*Natural Philosophy.*

Examination on the Subjects explained in the Class, including Astronomy. On the elements of Statics and Dynamics, with the solution of Problems not requiring the Differential or Integral Calculus; Experimental Science, including Sound, Light, Heat, Electricity, and Magnetism.

Names of Candidates to be given in to the Assistant-Clerk (Matriculation Office) on 1st October, 1892, or 10th March, 1893.<sup>1</sup>

#### Diploma for Teachers.

This Diploma is open to all students who are preparing themselves for the teaching profession, and who, besides fulfilling the conditions laid down by the Scotch Education Department for a Certificate of Competency, shall, in addition, go through a course of study, and pass the corresponding examinations, at the University.

When names are not given in and Fees are not paid on or before the stated dates, late Entry Fee of Ten Shillings must be paid before the Candidate can be admitted to examination. A Candidate is not held to be entered for the examination until his name is entered, the Fee paid, and all the necessary certificates, etc., lodged.

The following are the regulations for the Diploma :—

1. No candidate will be allowed to reckon attendance on an University Class as qualifying for the Diploma unless he produce evidence of having previously passed one or other of the following examinations, or any other examination accepted by the Senate as equivalent to such examinations—

(1) The entrance examination conducted at the Training College with a view to certifying Queen's Scholars as able to profit by University attendance ;

(2) The Preliminary Examination in Arts (with a view to the three years' course) in not less than two subjects.

2. Candidates for the Diploma must have completed attendance and passed all the ordinary class examinations, in at least Five subjects out of the following list, viz.: *Latin, Greek, Mathematics, Logic, English Literature, Moral Philosophy, Natural Philosophy.*

3. Attendance on the Junior Classes of Latin, Greek, or Mathematics, do not qualify for the Diploma.

4. After completing attendance and passing the ordinary class examinations in each subject, candidates for the Diploma are required to pass a further examination in the subject of each class so attended.

5. The examinations for the Diploma, in each subject, are the same as those held for the Degree of M.A. in the corresponding subjects, but with the following differences—(1) Candidates are allowed to enter for each subject separately, instead of being obliged to take all the subjects of a Department at once; and (2) In Latin and Greek no books are prescribed, and candidates are only required to pass in the papers in Grammar, Composition, and Unseen Translation.

6. As soon as convenient after the examination in each subject, a list will be issued containing the names of all those who have passed in that subject, arranged in two classes, the lower class denoting a Pass only, the higher class a Pass with superior merit. But no certificate of having passed in single subjects are given to the candidates, until they have gone through the entire course required for the Diploma.

7. Every candidate who has attended not less than five of the classes named above, and passed the corresponding examinations will be entitled to the Teachers' Diploma as soon as he shall produce evidence that he has received a certificate of competency as a teacher from the Education Department.

8. The Diploma shall bear that it is a Teachers' Diploma granted by the University, and issued only to such candidates as hold a Certificate of Competency from the Department; and it shall enumerate the subjects in which the bearer has given attendance and passed examinations at the University, and state in which degree of merit he has been placed in each.

9. All students who have attended or who may attend any of the Classes enumerated above, having fulfilled the necessary conditions

from and after the Session 1887-88 inclusive, will be permitted to count such attendance with a view to the Diploma; and the examinations held at the close of the Session 1887-88 and thereafter will be counted for the Diploma.

10. A register will be kept, from and after the Session 1887-88, of all Candidates entering for the Diploma, in which the names of all students passing the Teachers' Examination in any subject will be noted, with the degree of merit which they have attained in each subject.

11. The Fee for the Diploma, to be paid when the Diploma is delivered, will be £2 2s.; but no Fee will be charged upon entering for any of the Examinations.

12. Candidates for the Diploma must enter their names, and lodge the necessary certificates, etc., with the Assistant-Clerk (Matriculation Office) at the same time as candidates for the M.A. Degree, not later than the 1st October or the 10th of March respectively.

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## 2.—GRADUATION IN SCIENCE.

### Bachelor of Science.

The Senate, with the approval of the University Court, have instituted the Degree of Bachelor of Science, with two alternative lines of study.

The following regulations apply to all students who began their course in 1890 or 1891.<sup>1</sup>

1. The alternative departments are—A. In Natural Science; B. In Engineering Science.

### A. IN NATURAL SCIENCE.

2. The subjects of study are as follows :—

1. Mathematics.
2. Natural Philosophy.
3. Chemistry.
4. Botany.
5. Zoology.
6. Astronomy.
7. Geology and Mineralogy.
8. Anatomy.
9. Physiology.

<sup>1</sup> Students who began their course previous to 1890 may qualify themselves for the Degree of B.Sc. under the old regulations which are given in the Calendars for 1884, and for five following sessions.

In the Department of Natural Science the course of study occupies three whole years, and Students are recommended to take up the qualifying courses in the following order according to the group selected :—

#### GROUP I.

##### *Mathematics and Natural Philosophy.*

<i>Sessions.</i>	
1st Winter.	Mathematics (Upper Junior), Chemistry, Zoology.
1st Summer.	Chemical Laboratory, Botany and Botanical Laboratory.
2nd Winter.	Mathematics (Senior), Natural Philosophy, Zoological Laboratory.
2nd Summer.	Physical Laboratory.
3rd Winter.	Mathematics (Upper Senior), Natural Philosophy, Astronomy.
3rd Summer.	Physical Laboratory.

#### GROUP II.

##### *Experimental Physics and Chemistry.*

<i>Sessions.</i>	
1st Winter.	Mathematics (Upper Junior), Chemistry, Zoology.
1st Summer.	Chemical Laboratory, Botany and Botanical Laboratory.
2nd Winter.	Mathematics (Senior), Natural Philosophy, Zoological Laboratory.
2nd Summer.	Physical Laboratory, Chemical Laboratory.
3rd Winter.	Natural Philosophy, Chemical Laboratory.
3rd Summer.	Physical Laboratory.

#### GROUP III.

##### *Astronomy, Geology and Mineralogy.*

<i>Sessions.</i>	
1st Winter.	Mathematics (Upper Junior), Chemistry, Zoology.
1st Summer.	Chemical Laboratory, Botany and Botanical Laboratory.
2nd Winter.	Natural Philosophy, Geology Lectures and Demonstrations, Astronomy.
2nd Summer.	Zoological Laboratory.
3rd Winter.	Mathematics (Senior), <sup>1</sup> Chemical Laboratory, <sup>1</sup> Botanical Laboratory, <sup>2</sup> Zoological Laboratory, <sup>2</sup> Geology.
3rd Summer.	Geology Demonstrations.

#### GROUP IV.

##### *Botany and Zoology.*

<i>Sessions.</i>	
1st Winter.	Mathematics (Upper Junior), Chemistry, Zoology.
1st Summer.	Chemical Laboratory, Botany.

<sup>1</sup> Classes to be taken only by Students paying special attention to Mineralogy.

<sup>2</sup> Classes      "      "      "      "      "      Palaeontology.

*2nd Winter.* Natural Philosophy, Zoological Laboratory, Advanced Botany.

*2nd Summer.* Botanical Laboratory, Physiological Laboratory.

*3rd Winter.* Practical Botany, Physiology.

*3rd Summer.* Zoology, Zoological Laboratory.

#### GROUP V.

##### *Physiology and Vertebrate Anatomy.*

###### *Sessions.*

*1st Winter.* Mathematics (Upper Junior), Chemistry, Zoology.

*1st Summer.* Chemical Laboratory, Botany and Botanical Laboratory.

*2nd Winter.* Natural Philosophy, Zoological Laboratory, Junior Anatomy.

*2nd Summer.* Zoological Laboratory, Practical Anatomy, Practical Physiology.

*3rd Winter.* Senior Anatomy and Practical Anatomy, Physiology —Lectures and Laboratory.

*3rd Summer.* Practical Anatomy.<sup>1</sup>

3. In the Department of Natural Science the Examinations are two in number, and in the subjects admitting of it shall be both practical and oral as well as in writing. Candidates must pass in all the subjects of the first before being admitted to the second.

*First Examination (Spring and Autumn).*—Candidates must pass in the following five subjects:—

- |                          |                    |
|--------------------------|--------------------|
| A. { 1. Mathematics.     | B. { 3. Chemistry. |
| { 2. Natural Philosophy. | { 4. Botany.       |
|                          | { 5. Zoology.      |

The parts A and B may be taken together, in Spring or in Autumn; or they may be taken separately, A in Spring or Autumn, and B in Autumn or Spring.

The examination papers in 1 and 2 are the same as those for the examination in the Department of Mathematics for the Degree of M.A.; the examination papers in 3, 4, and 5 are the same as those for the First Professional Examination for the Degree of M.B., with additional questions.

*Second Examination (Spring).*—Candidates may select any one of the following five groups:—

- I. Mathematics, Natural Philosophy.
- II. Experimental Physics, Chemistry.
- III. Astronomy, Geology and Mineralogy.
- IV. Botany, Zoology.
- V. Physiology, Vertebrate Anatomy.

<sup>1</sup>Certified stamp to be produced showing that the whole body has been dissected.

## B. IN ENGINEERING SCIENCE.

4. There are four alternative courses :—(a) Civil Engineering ; (b) Chemical and Mining Engineering ; (c) Mechanical and Electrical Engineering ; (d) Naval Architecture and Marine Engineering.

The courses of study are as follows :—

## (a) CIVIL ENGINEERING.

1. Mathematics.
2. Natural Philosophy.
3. Chemistry.
4. Geology.
5. Geodesy.
6. Practical Chemistry, or Physical Laboratory, with a practical examination in the work of whichever is chosen.
7. Engineering Classes I., II., and IV.
8. Engineering Drawing and Calculations.

## (b) CHEMICAL AND MINING ENGINEERING.

1. Mathematics.
2. Natural Philosophy.
3. Chemistry.
4. Geology and Mineralogy.
5. Chemical Laboratory.
6. Engineering Classes I., II., III., and IV.
7. Engineering Drawing and Calculations.

## (c) MECHANICAL AND ELECTRICAL ENGINEERING.

1. Mathematics.
2. Natural Philosophy.
3. Chemistry.
4. Geology, or Geodesy, or Practical Chemistry.
5. Physical Laboratory.
6. Engineering Classes I., III., and IV.
7. Naval Architecture, Junior.
8. Engineering Drawing and Calculations.

## (d) NAVAL ARCHITECTURE AND MARINE ENGINEERING.

1. Mathematics.
2. Natural Philosophy.
3. Chemistry.
4. Chemical or Physical Laboratory, with a practical examination in the work of whichever is chosen.
5. Engineering Class III. or IV.
6. Naval Architecture, including Marine Engineering.
7. Ship Drawing and Calculations.

In the Department of Engineering Science the course of study occupies three whole years, and the qualifying courses in the several subjects are as follows :—

*Mathematics.*—Two sessions at least, including the Senior Class.  
(Students who satisfy the Professors in the Faculty of Arts that they are qualified to enter the Senior Class will be required only to attend that class.)

*Natural Philosophy.*—Attendance for one or two sessions upon the ordinary course (according to proficiency displayed), including attendance in the Higher Department.

*Chemistry.*—Lectures on Systematic Chemistry.

*Geology.*—Lectures on Geology, and in the event of candidates taking the Mining and Chemical group, those on Mineralogy.

*Geodesy.*—The Lectures of the Professor of Astronomy.

*Physical Laboratory.*—Attendance for at least one session.

*Chemical Laboratory.*—Attendance for at least one session.

*Practical Chemistry.*—The special course of Practical Chemistry in the winter session, or the summer course of Practical Chemistry.

*Engineering.*—Attendance upon the courses specified under the several groups. These courses are—I. The Materials of Construction and the Elements of Applied Mechanics ; II. Surveying, Levelling, and Setting out of Works, etc. ; III. Prime Movers and the Mechanics of Machinery ; IV. Higher Applied Mechanics : the Strength of Materials and of Structures : Hydraulics.

*Engineering Drawing and Calculations.*—Attendance for three sessions in the courses of Drawing and Calculations of the Professor of Engineering (one or two sessions may be omitted by students entering with sufficient previous preparation, on application being made to the Senate).

*Naval Architecture and Marine Engineering.*—The three courses of the Professor of Naval Architecture and Marine Engineering, except in the Mechanical Engineering group, in which the Junior Course only is required.

*Skip Drawing and Calculations.*—Attendance for three sessions on the courses of Drawing and Calculations of the Professor of Naval Architecture and Marine Engineering.

5. In the Department of Engineering Science, candidates may present themselves for examination in any one or more of the subjects of study as soon as they have attended the requisite classes.

6. No candidate shall be admitted to examination in any subject who has not attended a course of instruction in that subject recognized by the University. No student shall be admitted to the Degree of B.Sc. in this University unless he has given attendance in this University during the last two years of his curriculum, a year's attendance being constituted by at least two courses of not less than

one hundred lectures each, or by one such course and two courses of not less than fifty lectures each.<sup>1</sup>

7. The successful candidates at the Examinations preceding the Final shall not receive special certificates, but a certified list shall be published in the Quadrangles, and recorded in a book kept for this purpose by the Assistant-Clerk (Matriculation Office). Both lists shall be signed by the Examiners.

8. Students who have passed satisfactorily examinations on the prescribed subjects are entitled forthwith to receive the Degree of Bachelor of Science without Honours; but they may, before taking a Degree, offer themselves for a further examination in Engineering Science, or in any of the five groups in Natural Science, with a view to Graduation with Honours; provided always, that any student who desires to offer himself for examination, with a view to Graduation with Honours, may proceed to such examination without having previously passed the examination in those subjects for the Degree of Bachelor of Science without Honours; and if such student, in the opinion of the Examiners, fails to attain the standard for Honours, but attains to the standard of the examination for Graduation without Honours, he shall be held to have passed in those subjects for the Degree of Bachelor of Science without Honours, but if he fails to attain to the standard of the examination for Graduation without Honours, he shall not be entitled to the Degree of Bachelor of Science.

9. Examinations for the Degree of M.A. are available for the Degree of B.Sc. on the candidate paying the fees for examination for that Degree, over and above any fees he may have paid as a candidate for the Degree of M.A.

10. In the Department of Natural Science a fee of £1 11s. 6d. is payable when a candidate enters his name for each of the two examinations; in the Department of Engineering Science a fee of £1 1s. is payable in each session in which the candidate is examined, till £3 3s. shall have been paid.

For Table of Fees and dates of examinations, see page 136.

#### Doctor of Science.<sup>2</sup>

Candidates for this Degree are required to have taken the Degree of B.Sc. with honours. If from any cause honours be not taken at the time of graduation, the candidate must pass an examination equivalent to the honours examination, not sooner than one year after graduation, but the passing of this examination will not entitle

<sup>1</sup> The possession of a diploma of the Glasgow and West of Scotland Technical College, granted in accordance with the regulations contained in the Technical College Calendar for 1889-90, shall be reckoned to the holder as equivalent to the first two years' attendance at the University for the degree of B.Sc., but no holder of said diploma shall be admitted to the degree of B.Sc. unless he has given attendance in this University for not less than one year after obtaining his diploma.

<sup>2</sup> See Appendix VI. New Ordinance for Degrees in Science, Sections XV., XVI., p. 488.

him to a place in the list of Graduates with honours. Candidates who have not obtained the Degree of B.Sc. with honours are not allowed more than one opportunity of passing the equivalent examination. The fee for this examination is Two Guineas.

A candidate may present himself for the Degree of D.Sc. after the lapse of five years from the date of his taking B.Sc. with honours or of passing the equivalent examination. The candidate must furnish evidence that during that time he has been prosecuting the study of the subject in which he seeks to take the Degree of D.Sc. Candidates must be prepared to undergo examination, practical, or written, or both, on the higher departments of the subject, and must produce some original work. Separate publications, or researches published in Journals or in the Proceedings or Transactions of Scientific Societies, during the five years, may be presented in evidence of original work. The fee for the Degree of D.Sc. is Ten Guineas, under deduction of the fee that may have been paid for the equivalent examination.

The above regulations apply only to those who obtain the Degree of B.Sc. after session 1888-9. Applications for the Degree of D.Sc. from those who obtained the Degree of B.Sc. prior to or during Session 1888-9 shall be dealt with individually by the Senate, upon the candidate showing the grounds on which he bases his application.

#### New Ordinance for Degrees in Science.

The Commissioners under the Universities (Scotland) Act, 1889, have ordained that two Degrees in Science may be conferred by each of the Universities of Scotland, viz., Bachelor of Science (B.Sc.) and Doctor of Science (D.Sc.). These degrees may be given in Pure Science and in Applied Science. It is in the option of any student who, previous to 1st October, 1892, has completed a part of his course of study with a view to graduation in Science in this University under the regulations then in force, to complete his course of study and pass the necessary examinations either in conformity with such regulations or with the provisions of the new Ordinance.

#### Degree in Pure Science.

The Ordinance prescribes for those desirous of obtaining the Degree of B.Sc. a Preliminary Examination, attendance on at least seven courses of instruction during not less than three Academical years, and the passing of two Science Examinations. For details see Appendix VI., p. 485, New Ordinance for Degrees in Science, Sections II.-XII. The provisions of this Ordinance are applicable to all students who begin their course in Session 1892-93 and thereafter.

**TABLE OF EXAMINATIONS FOR DEGREE OF B.Sc., TO BE HELD DURING SESSION 1892-93.**

1 When Names are not given in and Fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the Candidate can be admitted to examination. A Candidate is not held to be entered for the examination until his Name is entered, the Fee paid, and all the necessary certificates, etc., lodged.

*Certificate of Proficiency in Engineering Science.*

Certificates of Proficiency in Engineering Science will be granted to students who shall have gone through the following course of study, practical work, and examinations, to the satisfaction of the Board of Examiners :—

*Ordinary Course for the Certificate of Proficiency in Engineering Science.*

## FIRST YEAR.—

Inorganic Chemistry, 5 days weekly, beginning in Oct., 10 A.M.

(Chemical Laboratory may be taken in this or any other year, Winter or Summer Session, if selected as part of the course. See below: Third Year.)

Mathematics, <sup>1</sup> Lower or Upper Junior, 5 days weekly,	9 A.M. or 12 noon.
Engineering, Class I., Mondays, Wednesdays, and Fridays, -	8 A.M.
Engineering Drawing and Calculations.	
Geology and Mineralogy, 5 days weekly, beginning in January, -	5.30 P.M.

## SECOND YEAR.—

Natural Philosophy, 5 days weekly, -	9 A.M.
Also recommended, if practicable, Tues. and Thur., -	11 A.M.
Mathematics, Senior or Upper Junior, 5 days weekly, -	10 A.M. or 9 A.M. or 12 noon.
Engineering, Class II. or III., Tuesdays, Thursdays, and Saturdays in this or other year, -	8 A.M.
Engineering Drawing and Calculations.	

## THIRD YEAR.

Senior Mathematics, if not previously attended, 5 days weekly, -	10 A.M.
Physical Laboratory, about 2 hours on 3 days weekly, or Chemical Laboratory, 5 days weekly ; or the Chemical Laboratory can be attended in any year in summer instead.	
Engineering, Class IV., 5 days weekly, -	9 A.M.

No candidate is admitted to the special Examination for the Certificate, in any department, till he has attended the prescribed course of study in that department.

Students who, on entering the University, show themselves qualified to enter the Senior Mathematical Class, by passing the mathematical part of the Preliminary Examination in Arts are not required to attend the Lower or the Upper Junior Class of Mathematics.

Attendance on the classes of Mathematics, Natural Philosophy, Chemistry, or Geology, in any Chartered University in the United Kingdom having the power of granting degrees, is admitted as part of the course for the above-mentioned certificate ; but all examinations for the certificate must be passed in this University.

Candidates for Certificates of proficiency in Engineering Science, who are graduates in Arts of any Chartered University of the United Kingdom, are exempted from study and examination in Mathematics and Natural Philosophy.

The Fee for the Certificate in Engineering Science is One Guinea.

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### 3.—HIGHER DEGREES IN LETTERS AND PHILOSOPHY.

The Senate having had under consideration proposals for the Degrees of Doctor in Letters (D.Litt.), and Doctor in Philosophy (D.Phil.), are of opinion that these Higher Degrees should be instituted in the University. It is not clear, however, that the University itself has power to institute those Degrees. The Senate have had negotiations with the University of Edinburgh regarding this matter, and are glad to be able to say that the two Universities are in substantial agreement on this subject, and also as to the conditions on which the degrees should be conferred. The Senate trust that they may be in a position at an early period, in conjunction with the University of Edinburgh, to bring the matter before the Universities Commissioners who have been appointed under the Act of 1889, with a view to a final determination. Meanwhile the Senate are desirous of stating the conditions on which they have resolved that the Higher Degrees should be conferred, in order that candidates who are looking forward to them may be aware of the terms on which they will be granted. These conditions are as follows :—

(1) That the degrees of D.Litt. and D.Phil. should be open to those who have graduated with first or second class honours in Classics or Philosophy respectively ; and to those who at a period subsequent to their taking the M.A. degree have passed an examination equivalent to the examination for honours. (This last provision is introduced to meet the case of those who have been prevented by ill-health, or other causes, from taking honours at the proper time.)

(2) That the degrees of D.Litt. and D.Phil. should be open to graduates with honours five years after the date of graduation as M.A., and in the case of ordinary graduates the date of passing an examination equivalent to the examination for honours.

(3) That every candidate for the degree of D.Litt. or of D.Phil. should be required to state what line of study or investigation he

has followed since taking the degree of M.A. and to submit a thesis upon a subject approved by the Senate, and, in addition, to undergo an examination in some special branch of his department of Arts ; and that in such thesis and examination he should be expected to give proof of special study or original research, and that the claims of each candidate should be specially reported on by two Professors or other qualified persons before the degree is conferred.

(4) That in special cases, when the candidate is able to refer to a book or other publication in which he has made important contributions to the knowledge of his subject, the Senate should, if they see fit, dispense with the test of examination ; but that in all such cases a special Committee should be appointed to report on the claims of the candidates, and the Senate should confer the degree only on the recommendation of such Committee.

(5) That in addition to the examinations in Arts, examinations should be instituted in English Language and Literature, in Oriental Languages, and in any other subjects which may in future be embraced in any department of the M.A. degree ; and that candidates who have taken that degree, and who in such examinations have attained a standard of proficiency corresponding to that of first or second class honours in Arts, should be entitled to become candidates for the degree of D.Litt., by thesis and examination, on the same terms with those who have passed with honours in Arts.

The above rules sufficiently indicate the general plan of the Examinations for the Higher Degrees ; but by way of showing more exactly their nature, the following subjects may be suggested :—

#### FOR THE DEGREE OF D.LITT. IN CLASSICS.

A candidate for the degree of Doctor of Letters, who founds his claim on attainments in Classical Scholarship, will be required to send in a thesis, embodying the results of original work in some one of the following departments :—

- |                        |                |
|------------------------|----------------|
| 1. Ancient Philosophy. | 3. Archæology. |
| 2. History.            | 4. Language.   |

The Classical Examination for the degree of Doctor of Letters shall include :—

1. Passages for translation, selected from the best Greek and Latin authors. No authors shall be specially set for a given occasion, but the examiners shall be free to choose the passages from the whole range of the Classical Literatures.

2. Passages for translation from English into Greek and Latin Prose.

Passages for translation from English into Greek and Latin verse.

But a candidate who does not take up Verse Composition shall have some other exercise appointed for him ; viz., an essay, or such other alternative as the examiners may approve.

3. Questions on Greek Grammar and Criticism. Questions on Latin Grammar and Latin Criticism.

4. Questions on Greek History (including the History of Literature) and Greek Antiquities. Questions on Roman History (including the History of Literature) and Roman Antiquities.

#### FOR THE DEGREE OF D.LITT. IN ORIENTAL LANGUAGES.

##### *Semitic Branch.*

Subjects proposed for examination in Semitic Philology :—

1. *Hebrew*.—The Books of Isaiah and Psalms. Translation into Hebrew.

2. *Syriac*.—The Gospels and the Acts of the Apostles in the Peshitâ Version. Translation into Syriac.

3. *Arabic*.—The three first Suras of the Koran. The book of Proverbs in Van Dyck's version of the Bible. Translation into Arabic.

#### FOR THE DEGREE OF D.PHIL. IN PHILOSOPHY.

1. The Philosophy of Aristotle. The candidate should be expected to show direct acquaintance with the Philosophical works of Aristotle ; and with the views of the most important of the modern critics of his philosophy.

2. Mediaeval Philosophy ; its origin, development, and influence on modern thought, philosophical and theological.

3. The relation of Logic and Metaphysics—with special reference to the Organon and Metaphysics of Aristotle and modern systems of Logic, including the Logic of Hegel. Candidates should be expected to show thorough acquaintance with the discussions upon the nature of knowledge by modern authors.

4. Modern Psychology. Candidates should be expected to show acquaintance with the whole development of Psychology from the time of Kant ; and to have studied the discussions on Psychophysics which have taken place up to the present time.

5. Modern Ethics—with special reference to the application of the idea of Development to Ethics. Candidates should be expected to show a thorough knowledge of the discussions of this subject up to the present time.

6. Philosophy in Britain from Locke to the present time.

**4.—GRADUATION IN MEDICINE.**

Every student who began his Medical Studies previous to 1st January, 1892, is entitled to graduate under the system in force before or after that date, according as he shall comply with the regulations in force in the University before or after that date. All others must fulfil the requirements of the new Ordinance for Degrees in Medicine.

**REGULATIONS IN FORCE PREVIOUS TO 1ST JANUARY, 1892.**

Three Medical Degrees are conferred by this University, viz.:—Bachelor of Medicine (M.B.) ; Master in Surgery (C.M.) ; and Doctor of Medicine (M.D.) ; all of which are recognized by the Medical Acts as qualifying for practice throughout the British dominions, and for admission to the Army, Navy, and Public Medical Service.

The Degrees of Bachelor of Medicine and Master in Surgery may be obtained by Candidates of the age of 21 years who have complied with the regulations as to Education and Examination.

The Degree of Master in Surgery shall not be conferred on any person who does not at the same time obtain the Degree of Bachelor of Medicine, nor shall the Degree of Bachelor of Medicine be conferred on any one who does not at the same time obtain the Degree of Master in Surgery.

The following rules and directions apply to the Degrees of Bachelor of Medicine and Master in Surgery :—

**A.—EXAMINATION OF MEDICAL STUDENTS IN GENERAL EDUCATION AND REGISTRATION BY THE MEDICAL COUNCIL.**

The Candidate for the Degrees of Bachelor of Medicine and Master in Surgery must have been registered in the books of the General Medical Council at least five years prior to the date of his graduation. In order to be so registered he must transmit to James Robertson, Esq., the Scottish Branch Registrar, 1 George Square, Edinburgh, together with a printed form of application which may be obtained from the Assistant-Clerk (Matriculation Office), a certificate of having passed a satisfactory Preliminary Examination.

A Degree in Arts (not being an Honorary Degree) of any of the Universities of England, Scotland, and Ireland, and also a Degree in Arts of any Colonial or Foreign University which may for this purpose have been specially recognized by the University Court, shall exempt Candidates from all preliminary examination.

The Examination in General Education may be passed either

in this University<sup>1</sup> or at any University or Board of which the examinations are recognized by the General Medical Council as entitling to registration.<sup>2</sup> But while a Certificate of having passed any recognized Preliminary Examination entitles to registration in the books of the General Medical Council, the University only accepts these Examinations *pro tanto*, and exacts examination in every case on such subjects required by the regulations of the University as are not embraced in the certificates presented from other Examining Boards, or which, though included therein, are not of similar extent to the same subjects as prescribed by the University. In such cases this Examination required by the University must be passed by the Candidates before enrolment for their First Professional Examination.

This registration in the books of the Medical Council, which is imperative on Candidates for any legal qualification to practise whatsoever, is quite distinct from Matriculation or other registration of students in the books of the University.

As the regulations for this Examination in General Education apply only to students who began their course before 1st January, 1892, the details are omitted, but they may be found in the University *Calendar* for 1891-92, pp. 147, 148. For the new Preliminary Examination, see new Ordinance for Degrees in Medicine, Section III., in Appendix VI., p. 494.

#### B.—PROFESSIONAL EDUCATION.

*1. Duration and Constitution of the Curriculum.*—No one shall be admitted to the Degree of Bachelor of Medicine or Master in Surgery, who has not been engaged in medical and surgical study for four years,<sup>3</sup>—the medical session of each year, or *Annus Medicus*, being constituted by at least two courses of not less than one hundred lectures each, or by one such course and two courses of not less than fifty lectures each; but in the case of the Clinical Courses, it shall be sufficient that the lectures be given at least twice a week during the prescribed periods.

One at least of the four years of medical and surgical study above required must be in the University of Glasgow.

<sup>1</sup> A Local Centre in connection with this Examination has been established in the University College of North Wales, Bangor. Candidates who prefer to sit for examination there must intimate their desire when returning schedule of entry to Glasgow. Such Candidates are required, on taking their seats at Bangor, to pay to the College Authorities there a special fee of 5s. This is in addition to the ordinary fee, payable at Glasgow, as mentioned at page 149. The Examinations are held simultaneously in Bangor and Glasgow.

<sup>2</sup> For a list of such Examining Boards, see p. 153.

<sup>3</sup> A Minute of the General Medical Council of date 6th June, 1890, bears that after 1st January, 1892, the period of Professional Study, between the date of Registration as a Medical Student and the date of Final Examination for any Diploma giving a title to Registration under the *Medical Acts*, must be a period of *continuous* Study during not less than five years.

Another of such four years must be either in the University of Glasgow, or in some other University entitled to give the degree of Doctor of Medicine.

Attendance during at least six winter months on the medical or surgical practice of a general hospital which accommodates at least eighty patients, and during the same period on a course of Practical Anatomy, may be reckoned as one of such four years, and to that extent shall be held equivalent to one year's attendance on courses of lectures, as above prescribed.

One year's attendance on the Lecturers or Teachers of Medicine in the Hospital Schools of London, or in the School of the College of Surgeons in Dublin, may be reckoned as one of such four years; and to that extent shall be held as attendance on courses of lectures as above prescribed.

Attendance on the lectures of any private Teacher or Teachers of Medicine whose lectures have, by regulation of the University Court, with consent of the Chancellor of the University, been recognized for the purpose of graduation in the University, may be reckoned in place of the year's attendance last above mentioned, or as part thereof, as the case may be.

Candidates may, to the extent of four of the departments of medical study enumerated in "required courses of instruction," attend in such year or years of their medical and surgical studies as may be most convenient to them, the lectures of the Teachers of Medicine specified in the two immediately preceding paragraphs.<sup>1</sup>

All Candidates availing themselves of the permission to attend the lectures of private Teachers, and not being at the time matriculated students of the University, must, at the commencement of the year of such attendance, enrol their names in a book kept by the University for that purpose, paying a fee of one-half the amount of the matriculation fee paid by students of the University; but they shall not be thereby entitled to any of the privileges of a matriculated student of the University.

The fee for attendance on the lectures of any private Teacher, with a view to graduation, shall not be of less amount than that exigible by Medical Professors of the University for the same course of instruction. (*The fees must be paid at the commencement of the course.*)

No attendance on Lectures shall be reckoned, if the Teacher gives instruction in more than one of the prescribed branches of study, except in those cases where Professors of the University are at liberty to teach more than one branch.

<sup>1</sup> In Provincial Medical Schools where there are no Lecturers recognized by the University Court, a Candidate can complete only one *Access Medicis*, constituted by attendance at a General Hospital accommodating not fewer than 80 patients, along with a course of Practical Anatomy.

*2. Required Courses of Instruction.*—Every Candidate for the Degrees of Bachelor of Medicine and Master in Surgery shall give sufficient evidence by certificates :—

- (1.) That he has studied each of the following departments of medical science, viz.:—

ANATOMY,		During courses including not less than one hundred lectures.
CHEMISTRY,		
MATERIA MEDICA and PHARMACY,		
INSTITUTES OF MEDICINE or PHYSIOLOGY,		
PRACTICE OF MEDICINE,		
SURGERY,		
MIDWIFERY and the DISEASES peculiar to WOMEN and CHILDREN;		
two courses of Midwifery, of three months each, <sup>1</sup> being reckoned equivalent to a six months' course, provided different departments of Obstetric Medicine be taught in each of the courses,		
PATHOLOGICAL ANATOMY, during a three months' course of lectures, together with a supplemental course of Practice of Medicine or Clinical Medicine; or a course of not less than one hundred lectures on General Pathology.		
PRACTICAL ANATOMY,	Six months.	
PRACTICAL CHEMISTRY,	Three months.	
PRACTICAL MIDWIFERY,	Three months on the indoor practice of a Lying-in-Hospital, or presence at not less than twelve labours, at least three of which must be conducted personally by the candidate under the direct supervision of a Registered Practitioner.	
CLINICAL MEDICINE,	During courses of six months, or two courses of three months;	
CLINICAL SURGERY,	lectures being given at least twice a week.	
MEDICAL JURISPRUDENCE,		
BOTANY,		
ZOOLOGY with COMPARATIVE ANATOMY,	During courses including not less than fifty lectures.	

- (2.) That he has attended for at least two years the medical and surgical practice of a general hospital either at

<sup>1</sup> The Fee for each course of Midwifery of three months is £2 2s.

Glasgow or elsewhere, which accommodates not fewer than eighty patients, and possesses a distinct staff of physicians and surgeons.

- (3.) That he has attended, during a course of not less than fifty hours' instruction, the class of Practical Materia Medica in the University of Glasgow; or a similar class in a University or School of Medicine, attendance on which is recognized by the Ordinance; or a similar class conducted by a teacher recognized by the University Court under the Ordinance; or, that he has been engaged for at least three months, by apprenticeship or otherwise, in compounding and dispensing drugs at the laboratory of an hospital, dispensary, member of a Surgical College or Faculty, of a licentiate of the London or Dublin Society of Apothecaries, or of a member of the Pharmaceutical Society of Great Britain. [Students are recommended to take the class of Pharmacology and Practical Pharmacy in the summer before their attendance on the course of Materia Medica; but attendance on such a course cannot be substituted for attendance on the course of systematic Lectures on Materia Medica, which must be taken before the third Professional Examination.]
- (4.) That he has attended for at least six months, by apprenticeship or otherwise, the out-practice of an hospital, or the practice of a dispensary, or of a physician, surgeon, or member of the London or Dublin Society of Apothecaries.

**VACCINATION.** The candidate must produce a certificate from a recognized Vaccination department in an hospital, dispensary, or other public institution, that he has performed the operation successfully under the Teacher's supervision; that he is familiar with the different stages of the vaccine vesicle, and with the mode of preserving lymph, and is generally well instructed in the subject.<sup>1</sup>

#### C.—PROFESSIONAL EXAMINATIONS.

By orders of Her Majesty in Council, dated 13th August, 1877, 23rd August, 1883, 27th January, 1885, and 26th March, 1885, the following are the arrangements for Professional Examinations:—

1. Every candidate for the Degrees of Bachelor of Medicine and Master in Surgery shall be examined both in writing and *viva voce*, First, on Chemistry, Botany, and Natural History; Second, on Anatomy and Physiology; Third, on Regional Anatomy, and Materia Medica and Pharmacy; and Fourth,

<sup>1</sup> The recognized Vaccine Departments in Glasgow are Western Infirmary, Royal Infirmary, and Faculty of Physicians and Surgeons.

on Surgery, Clinical Surgery, Medicine, Clinical Medicine, Pathology, Midwifery, and Medical Jurisprudence. The Examination in Chemistry shall include Practical Chemistry; and the Examinations in Anatomy and Physiology shall include Practical Anatomy, Histology, and Practical Physiology; and the Examination in Surgery shall include Operative Surgery.

2. Students may appear for examination in the first of the foregoing divisions of subjects who have completed their attendance on the required courses during one winter and one summer session : provided always that students shall not be admitted to such examination at an earlier date than the period of examination immediately preceding their second winter session of professional study ; and that students who commenced their medical studies in the summer session shall not be admitted to a degree in medicine unless their course of study, subsequent to the completion of the summer session in which they commenced their medical studies, shall not be less than the minimum course of four years prescribed by this Ordinance.
3. Students who have passed the first examination may appear for examination in the second division of subjects, after having completed their attendance on the requisite courses (including those of the subjects of examination) after the lapse of two winter and three summer sessions from the time of the commencement of their studies ; provided always that students who have commenced their medical studies with a winter session may appear for examination in the second division of subjects after the lapse of two winter and two summer sessions from the time of the commencement of their studies.
4. Students who have passed the two previous examinations may appear for examination in the third division of subjects at any of the terms fixed for examination by the Senate, after the conclusion of the third winter session of attendance upon Medical Classes (including those of the required subjects).
5. Students who have passed the examinations in the subjects of the three previous divisions may appear for examination in the subjects of the fourth division at the first term for the final examination after the conclusion of their Curriculum of study.

In addition, the following regulations will be observed :—

1. The examinations will be conducted by written papers and by oral examinations. A practical knowledge of the subject is also required.

2. Candidates must produce certificates of satisfactory attendance on the courses belonging to each division before presenting themselves for these examinations, and no candidate is allowed to enrol himself for the Second, Third, or Fourth examination without having passed the immediately preceding examination.
3. Previous to appearing for the final examination the candidate must produce a declaration in his own handwriting that on the day of graduation, he will have completed his twenty-first year and will not be under articles of apprenticeship.
4. At the professional examinations, candidates will as far as possible be examined orally in the alphabetical order of their surnames.
5. If any Candidate, on examination, be found unqualified, he shall not be again admitted to examination unless he shall have completed another year of medical study, or such portion of another year as may be fixed by the examiners when he is found unqualified.
6. Every Candidate must matriculate at the University for the year in which he enters for professional examination or for graduation.

The examinations are conducted by the Professors of the Faculty of Medicine, together with the other Examiners appointed by the University Court.

For Table of Fees and dates of examinations see page 149.

#### D.—DEGREE OF DOCTOR OF MEDICINE.

The Degree of Doctor of Medicine may be conferred on any candidate who has obtained the degree of Bachelor of Medicine, and is of the age of twenty-four years, and has been engaged, subsequently to his having obtained the degree of Bachelor of Medicine, for at least two years in attendance on an hospital, or in the Military or Naval medical service, or in medical or surgical practice : Provided always that the degree of Doctor of Medicine shall not be conferred on any person, unless he be a graduate in Arts within the fifth section of the Ordinance, or unless he shall have passed a satisfactory examination in Greek, and in Logic or Moral Philosophy, and in one, at least, of the following subjects, namely, French, German, Higher Mathematics, Natural Philosophy, and Natural History. Provided also that each candidate for the degree of Doctor of Medicine shall present an Inaugural Dissertation composed by himself to be approved by the Senatus Academicus. Such Dissertations or Theses<sup>1</sup> must be lodged with the Assistant-Clerk (Matriculation Office), on or before 20th March, 20th June, or 20th October. No Thesis will be approved unless it gives evidence of original observation, or, if it deal

<sup>1</sup>Candidates are requested to have their Theses bound before sending them in.

with the researches of others, gives a full statement of the literature of the question, with accurate references and critical investigation of the views or facts cited : mere compilations will in no case be accepted. The fees for the Degree of M.D. amount to £15 8s. (including the sum of £10 3s. for Government stamp, etc.).

#### NEW ORDINANCE FOR DEGREES IN MEDICINE.

The Commissioners under the Universities (Scotland) Act, 1889, have ordained that four Degrees in Medicine and Surgery shall be conferred by the University of Glasgow, viz., Bachelor of Medicine (M.B.), Bachelor of Surgery (Ch.B.), Doctor of Medicine (M.D.), and Master of Surgery (Ch.M.). The Ordinance prescribes the Preliminary Examination which each student must pass before he commences his medical studies, the conditions as to Professional education which he must fulfil, and the Professional Examinations which he must pass. For details see Appendix VI., page 494, New Ordinance for Degrees in Medicine. The provisions of the Ordinance are applicable to all students of Medicine who begin their course in 1892, and thereafter.

TABLE OF EXAMINATIONS FOR DEGREES IN MEDICINE TO BE HELD DURING SESSION 1892-93.

1 When Names are not given in and Fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the Candidate can be enrolled for examination. A Candidate is not held to be enrolled for examination until his Name is entered, the Fee paid, and all the

In the event of a Candidate being rejected in a Professional Examination, he may be admitted once to re-examination without payment of further necessary Certificates, etc., lodged.

<sup>3</sup> For Cattell's rates under the New Ordnance the fee will be £10.

## DIPLOMA IN PUBLIC HEALTH.

The following regulations as to instruction in Public Health and as to examinations for the Diploma in Public Health prepared by the Senate have received the sanction of the University Court :—

I. The University provides instruction in Public Health by Laboratory training and otherwise.

II. The subjects of instruction are :—

Duties of Health Officer, Air and Ventilation, Food and its Adulterations, Water and Water Supply, Sewerage and Drainage ; Construction of Hospitals, Public Buildings, and Dwellings ; Overcrowding, Manufactories, Insalubrious Trades, Cemeteries, Nuisances, Quarantine, Disinfectants and Deodorizers, Outbreaks of Zymotic Diseases ; Climate, Topographical and Seasonal : its influences in relation to Health and Disease ; Geographical Distribution of Diseases ; Knowledge of leading Sanitary Acts of Parliament, Vital Statistics.

III. The Laboratory training is provided in a special department of the Chemical Laboratory. Practical instruction is given in the following subjects :—

(a) *Water*.—Qualitative examination ; Colour, odour, and suspended matters. Quantitative examination : ammonia, albuminoid ammonia, nitric and nitrous acids, sulphuric and phosphoric acids, chlorine, total solids, lime, magnesia, alkalies, silica in solution, the hardness before and after boiling ; Clark's process for softening water ; explanations and illustrations of methods employed to purify water by chemical processes and by filtration.

(b) *Air*.—Qualitative and quantitative examination for gaseous impurities and suspended matters.

(c) *Water and Air*.—Bacteriological methods of examination. Micro-organisms, moulds, and fungi, and their identification. Pure cultures.

(d) *Soils*.—Nature and examination of soils ; ground-water, sewage.

(e) *Antiseptics and Disinfection*.—The relative value of various antiseptics and disinfectants and the methods of employing them.

(f) *Foods*.—Quantitative examination of milk, butter, tea, coffee, sugar, alcoholic beverages, aerated waters for poisonous substances. Qualitative examination of bread and flour, of cereal, farinaceous, and other food substances and condiments ; chemical and microscopic examination for common adulterations, colouring matters, animal

organisms, and poisonous substances ; examination of food substances for fungoid growths, and poisonous substances resulting from the same.

IV. The Diploma in Public Health may be obtained by any Bachelor of Medicine of this University on his passing the required examination not less than twelve months after he has taken the degree of M.B.

V. Every candidate for a Diploma in Public Health shall give sufficient evidence by certificates :—

1. That after obtaining the Degree of M.B. he has undergone the practical training provided under Regulation III.
2. That he has, after obtaining the degree of M.B., practically studied for six months the duties of out-door Sanitary work under the Medical Officer of Health of a County or large Urban District.

VI. The examination shall be written, practical, and oral. The subjects of examination are as follows :—

A. Physics, Meteorology, and Climatology, with special reference to Heat and Ventilation, Water supply, Drainage, and the Geographical distribution of Disease.

B. Chemistry and Biology.—The composition and analysis (qualitative and quantitative) of Air, Water, and Sewage; detection of poisons and recognition of injurious pigments; the composition and adulteration of foods and beverages; diseased and putrid food; Bacteriology; microscopic examination of Air, Water, Foods, and Beverages.

C. General Hygiene.—Duties of Medical Officer of Health; Nature and Construction of Dietaries; Sanitary arrangements of Houses, Hospitals, Workshops, Factories, Towns, including Interpretation of Plans; Ventilation, Water Supply, Sewerage, Disposal of the Dead; Aëtiology, Prophylaxis, and Control of Infectious Diseases; Unhealthy occupations; Practical examination and written report on some selected area or premises.

D. Sanitary Law and Vital Statistics—Laws relating to Public Health, Vaccination, and Registration of births, marriages, and deaths; Methods and results of Vital Statistics, chiefly in relation to the birth, marriage, and death rate of communities.

VII. The Fee for the course of instruction shall be £10 10s., and for the Examination £5 5s.

## GRADUATION.

The terms for conferring Medical and Surgical Degrees in Session 1892-3 are 10th November, 1892 ; 9th February, 1893 ; 21st April, 1893 ; and 27th July, 1893.

Candidates proceeding to Graduation, if not already Members of the General Council of the University, are required by the Act, 44 and 45 Vict. Ch. 40, to pay to the Registrar of the General Council the Registration Fee, and furnish to him the particulars required for their enrolment in the General Council. This should in all cases be done at least two clear days before the day of Graduation.

In accordance with the Promissory Oaths Act, 1868, a Declaration in the following English form is now substituted for the Latin Oath, or Sponsio Academica, formerly required to be taken and subscribed by every Candidate on Graduation :

I do solemnly and sincerely declare, that, as a Graduate in Medicine of the University of Glasgow, I will exercise the several parts of my profession, to the best of my knowledge and abilities, for the good, safety, and welfare of all persons committing themselves, or committed to my care and direction ; and that I will not knowingly or intentionally do anything or administer anything to them to their hurt or prejudice, for any consideration, or from any motive whatever. And I further declare, that I will keep silence as to anything I have seen or heard while visiting the sick which it would be improper to divulge. And I make this solemn declaration in virtue of the Provisions of the Promissory Oaths Act, 1868, substituting a Declaration for Oaths in certain cases.

## REGISTRATION OF MEDICAL PRACTITIONERS.

Graduates should register as soon as possible with the Branch Registrar for Scotland, at 1 George Square, Edinburgh. Fee £5. Additional Qualifications, 5s. each. Forms of application may be had from the Assistant-Clerk (Matriculation Office).

**LIST OF EXAMINING BODIES WHOSE EXAMINATIONS FULFIL THE CONDITIONS OF THE MEDICAL COUNCIL AS REGARDS PRELIMINARY EDUCATION.**

N.B. The Certificates of these Bodies admit to matriculation and study in the University of Glasgow; but Candidates for Degrees must conform to the regulations of the University as laid down under A, page 141.

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*I.—Universities in the United Kingdom.*

**UNIVERSITY OF OXFORD.**—(1) Junior Local Examinations; Certificate to include Latin and Mathematics, and also one of the following optional subjects:—Greek, French, German. (2) Senior Local Examinations; Certificate to include Latin and Mathematics. (3) Responsions. (4) Moderations. (5) Examination for a Degree in Arts.

**UNIVERSITY OF CAMBRIDGE.**—(6) Junior Local Examinations; Certificate to include Latin and Mathematics, and also one of the following optional subjects:—Greek, French, German. (7) Senior Local Examinations; Certificate to include Latin and Mathematics. (8) Higher Local Examinations. (9) Previous Examination. (10) Examination for a Degree in Arts.

**UNIVERSITY OF DURHAM.**—(11) Examination for Certificate of Proficiency. (12) Examination for Students at the end of their first year. (13) Examination for a Degree in Arts.

**UNIVERSITY OF LONDON.**—(14) Matriculation Examination. (15) Preliminary Scientific (M.B.) Examination. (16) Examination for a Degree in Arts or Science.

**VICTORIA UNIVERSITY.**—(17) Preliminary Examination; Latin to be one of the subjects. (18) Entrance Examination in Arts, to include all the subjects required.

**UNIVERSITY OF EDINBURGH.**—(19) Local Examinations (Junior Certificate); Certificate to include English Literature, Arithmetic, Algebra, Geometry, Latin, and also one of the following optional subjects:—Greek, French, German. (20) Local Examinations (Senior Certificate); Certificate to include English Literature, Arithmetic, Algebra, Geometry, Latin, and also one of the following optional subjects:—Greek, French, German. (21) Preliminary Examination for Graduation in Science or Medicine and Surgery. (22) Examination for a Degree in Arts.

**UNIVERSITY OF ABERDEEN.**—(23) Local Examinations (Junior Certificate); Certificate to include all the subjects required. (24) Local Examinations (Senior Certificate); Certificate to include English Literature, Arithmetic, Algebra, Geometry, Latin, and also one of the following optional subjects:—Greek, French,

German. (25) Preliminary Examination for Graduation in Medicine and Surgery. (26) Examination for a Degree in Arts.

**UNIVERSITY OF GLASGOW.**—(27) Local Examinations (Junior Certificate); Certificate to include all the subjects required. (28) Local Examinations (Senior Certificate); Certificate to include English Literature, Arithmetic, Algebra, Geometry, Latin, and also one of the following optional subjects:—Greek, French, German. (29) Preliminary Examination for Graduation in Medicine and Surgery. (30) Examination for a Degree in Arts.

**UNIVERSITY OF ST. ANDREWS.** (31) Local Examinations (Senior Certificate); Certificate to include English Literature, Arithmetic, Algebra, Geometry, Latin, and also one of the following optional subjects:—Greek, French, German. (32) Local Examinations (Junior Certificate), to include all the subjects required. (33) Preliminary Examination for Graduation in Medicine and Surgery. (34) Examination for a Degree in Arts. (35) Examination for the LL.A. Certificate; Certificate to include all the Subjects required by the Council.

**UNIVERSITY OF DUBLIN.**—(36) Public Entrance Examination. (37) General Examination at end of Senior Freshman year. (38) Examination for a Degree in Arts.

**QUEEN'S UNIVERSITY IN IRELAND.**—(39) Local Examinations for Men and Women; Certificate to include all the subjects required by the General Medical Council. (40) Entrance or Matriculation Examination. (41) Previous Examination for B.A. Degree. (42) Examination for a Degree in Arts.

**ROYAL UNIVERSITY OF IRELAND.**—(43) Matriculation Examination; (44) Examination for a Degree in Arts.

**OXFORD AND CAMBRIDGE SCHOOLS' EXAMINATION BOARD.**—(45) Certificate to include the following subjects, an adequate knowledge of English Grammar and Orthography, as shown in the course of the Examination, to the satisfaction of the Examiners, being held as conforming to the requirements of the Medical Council in regard to those subjects:—Arithmetic, including Vulgar and Decimal Fractions; Algebra, including Simple Equations; Geometry, including the first two books of Euclid; Latin, including Translation and Grammar. Also one of these optional subjects:—Greek, French, German.

## *II.—Other Bodies named in Schedule (A) to the MEDICAL ACT, 1858.*

**APOTHECARIES' SOCIETY OF LONDON.**—(46) Examination in Arts.

**ROYAL COLLEGES OF PHYSICIANS AND SURGEONS OF EDINBURGH.**—(47) Preliminary (combined) Examination in General Education, conducted by the Educational Institute of Scotland.

**FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW.**—(48) Preliminary Examination in General Literature.

**ROYAL COLLEGE OF SURGEONS IN IRELAND.**—(49) Preliminary Examination; Certificate to include Mathematics.

*III.—Examining Bodies, in the United Kingdom, not included in Schedule (A) to the MEDICAL ACT (1858).*

COLLEGE OF PRECEPTORS.—(50) Examination for a First-Class Certificate, or Second-Class Certificate of First or Second Division, Algebra, Geometry, Latin, and a Modern Language, having been taken.

INTERMEDIATE EDUCATION BOARD OF IRELAND.—(51) Junior Grade Examination. (52) Middle Grade Examination. (53) Senior Grade Examination. Certificate in each case to include all the subjects required by the General Medical Council.

EDUCATIONAL INSTITUTE OF SCOTLAND.—(54) Preliminary Medical Examination.

SCHOOLS LEAVING CERTIFICATES.—(55) Three Grades.

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*IV. -Indian, Colonial, and Foreign Universities and Colleges.*

UNIVERSITY OF CALCUTTA.—(56) Entrance Examination ; Certificate to include Latin.

UNIVERSITY OF MADRAS.—(57) Entrance Examination ; Certificate to include Latin.

UNIVERSITY OF BOMBAY.—(58) Entrance Examination ; Certificate to include Latin.

CEYLON MEDICAL COLLEGE. (59) Preliminary Examination (Primary Class).

UNIVERSITY OF M'GILL COLLEGE, MONTREAL.—(60) Matriculation Examination.

UNIVERSITY OF BISHOP'S COLLEGE, MONTREAL.—(61) Matriculation Examination.

UNIVERSITY OF TORONTO.—(62) Matriculation Examination.

UNIVERSITY OF TRINITY COLLEGE, TORONTO.—(63) Matriculation Examination.

UNIVERSITY OF QUEEN'S COLLEGE, KINGSTON.—(64) Matriculation Examination.

UNIVERSITY OF VICTORIA COLLEGE, UPPER CANADA. —(65) Matriculation Examination.

WESTERN UNIVERSITY OF ONTARIO. —(66) Entrance Examination in Medicine ; Certificate to include all the subjects required for registration.

COLLEGE OF PHYSICIANS AND SURGEONS OF ONTARIO.—(67) Preliminary Examination ; Certificate to include all the subjects required for registration.

UNIVERSITY OF MANITOBA.—(68) Previous Examination.

UNIVERSITY OF FREDERICTON, NEW BRUNSWICK.—(69) Matriculation Examination.

- UNIVERSITY OF MOUNT ALLISON COLLEGE, NEW BRUNSWICK—(70) Examination for a Degree in Arts.
- UNIVERSITY OF KING'S COLLEGE, NOVA SCOTIA.—(71) Matriculation Examination. (72) Responses.
- UNIVERSITY OF HALIFAX, NOVA SCOTIA.—(73) Matriculation Examination.
- DALHOUSIE COLLEGE AND UNIVERSITY, HALIFAX, NOVA SCOTIA.—(74) Matriculation and Sessional Examinations.
- PROVINCIAL MEDICAL BOARD OF NOVA SCOTIA—(75) Matriculation Examination.
- UNIVERSITY OF MELBOURNE.—(76) Matriculation Examination.
- UNIVERSITY OF SYDNEY.—(77) Matriculation Examination.
- UNIVERSITY OF ADELAIDE.—(78) Matriculation Examination or its substitute, the Senior Public Examination; (79) Junior Public Examination; Certificate to include all the subjects required for registration.
- TASMANIAN COUNCIL OF EDUCATION.—(80) Examination for the Degree of Associate of Arts; Certificate to include Latin and Mathematics.
- UNIVERSITY OF THE CAPE OF GOOD HOPE.—(81) Matriculation Examination. (82) Examination for a Degree in Arts.
- UNIVERSITY OF OTAGO.—(83) Preliminary Examination.
- UNIVERSITY OF NEW ZEALAND.—(84) Entrance Examination.
- CHRIST'S COLLEGE, CANTERBURY, NEW ZEALAND.—(85) Voluntary Examinations. Certificate to include all the subjects required by the General Medical Council.
- CODRINGTON COLLEGE, BARBADOES.—(86) English Certificate for Students of two years' standing, and Latin Certificate or "Testamur."
- GERMANY AND OTHER CONTINENTAL COUNTRIES.—(87) Gymnasial Abiturienten-Examen, and other corresponding Entrance Examinations to the Universities.
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#### 5.—GRADUATION IN LAW.

Degrees of Bachelor of Laws (LL.B.) and Bachelor of Law (B.L.).

Two Degrees in Law are conferred, after examination, by the University of Glasgow, viz., Bachelor of Laws (LL.B.) and Bachelor of Law (B.L.).

By regulation of the Faculty of Advocates, any one who has obtained the Degree of LL.B. from a Scottish University is held qualified in General Scholarship and Law with a view to admission to the Bar, without examination or other evidence of such qualification.

By the Law Agents Act, 36 and 37 Vict., c. 63, the holder of a Degree in Law or in Arts of a University in Great Britain or Ireland, granted after examination, is qualified to apply for admission as a Law Agent after an apprenticeship of three years, instead of five, as required in the ordinary case ; and by act of Sederunt of 20th July, 1878, any applicant who holds the Degree of LL.B. or of B.L. of any Scottish University is exempted from any examination in Law before the Examiners of Law Agents, excepting only on forms of Process, Civil and Criminal.

The conditions on which the Degree of LL.B. is now conferred are regulated by ordinance of the Universities Commissioners, No. 75, the principal provisions of which are the following :—

I. No one shall hereafter be admitted as a candidate for the Degree unless he be a graduate in Arts of a recognized University.

II. The course of study in Law necessary for the degree of Bachelor of Laws shall extend over three academical years, and shall include attendance on a distinct course in each of the six following departments, viz. :—

1. CIVIL LAW,	-	-	-	-	-	During Courses of not less than Eighty Lectures each.
2. LAW OF SCOTLAND,	-	-	-	-	-	
3. CONVEYANCING,	-	-	-	-	-	During Courses of not less than Forty Lectures each.
4. PUBLIC LAW,	-	-	-	-	-	
5. CONSTITUTIONAL LAW AND HISTORY,	-	-	-	-	-	During Courses of not less than Forty Lectures each.
6. MEDICAL JURISPRUDENCE,	-	-	-	-	-	

III. No one shall be admitted as a candidate for this Degree in any University unless two at least of the three academical years of his course of study in Law shall have been in such University.

IV. Candidates for the Degree of Bachelor of Laws shall be examined, both in writing and *civit voto*, on each of the six departments of Law above specified.

V. The Examiners, in judging of the qualifications of candidates, shall have special regard to their requirements in the two departments of Public Law and Constitutional Law and History.

VI. The Examiners for Degrees in Law in each University shall be six in number, and there shall always be one Examiner specially qualified for each one of the six departments above specified ; and where the Professors of the Faculty of Law in any University do not furnish the requisite number of Examiners duly qualified, the number shall be made up by the appointment of additional Examiners by the University Court ; provided always that no person shall be appointed an additional Examiner in any University unless he be a professor in the Faculty of Law in a *Scottish* University, or shall have obtained the Degree of Bachelor of Laws, in accordance with the provisions of this ordinance.

VII. Each candidate for the degree of Bachelor of Laws shall pay a Fee of Five Guineas in respect of his examination for the Degree.

The following Regulations for the Degree of Bachelor of Law (B.L.) were sanctioned by Her Majesty, by order in Council, dated 6th August, 1874 :—

VIII. Besides the Degree in Law specified in the said Ordinance there shall in future be in the University of Glasgow a second Degree in Law granted after examination, namely, the Degree of Bachelor of Law (B.L.).

IX. No one shall be admitted to examination as a candidate for the Degree of Bachelor of Law in the University of Glasgow unless he be a Graduate in Arts, qualified as prescribed in Section I. (*sopra*), or unless he shall have passed a satisfactory examination in Latin, and in any three of the following subjects (Logic or Mathematics being always one of the three), viz. : (a) Greek, with the alternative of French or German, (b) Logic, (c) Moral Philosophy, (d) Mathematics, (e) Natural Philosophy, and (f) English Literature ; and further, shall have studied, during at least two academical years, two or more of the above branches, in one or more of the Universities mentioned in section I. The examinations shall be conducted by Examiners in Arts, together with some of the Law Examiners.

X. The course of study in Law necessary for the Degree of Bachelor of Law in the University of Glasgow shall extend over at least two academical years, and shall include attendance on a distinct course, as specified in section II., in each of the three departments of Civil Law, Law of Scotland and Conveyancing, and in any one of the other three departments of Law mentioned in that section ; provided always that in lieu of Civil Law, or one of the last-mentioned three departments of Law, attendance on a distinct course of Moral Philosophy shall be admitted as sufficient, or in the event of Moral Philosophy having been selected by a candidate as one of the three optional subjects of Preliminary Examination, then attendance on a distinct course of Political Economy shall be admitted in lieu of Civil Law or one of the said other three departments of Law. No one shall be admitted to examination as a Candidate for the said Degree unless two academical years of his course of study in Law shall have been in the University of Glasgow. The candidates shall be examined in each of the departments in which they shall have given attendance as herein required.

XI. The Examiners for the Degree of B.L. in the University of Glasgow shall be the Professors of the Faculty of Law, together with two additional Examiners appointed by the University Court, from among Graduates in Law of any of the Universities of Scotland, provided always that for six years after the approval of this

alteration on the Ordinance by Her Majesty in Council, any one shall be eligible as Examiner who is a Member of the General Council of any of the Universities of Scotland. Each of such additional Examiners shall hold office for the term of three years.

XII. The fee to be paid by each candidate for the Degree of Bachelor of Law in the University of Glasgow shall be Three Guineas.

XIII. Any candidate who, before the approval of the present alteration by Her Majesty in Council, may, with a view to Graduation in the University, have passed an examination in any of the subjects hereby required for the Degree of B.L., shall be entitled to reckon such examination as an examination in the same subject or subjects for the purposes of the said Degree.

### SUBJECTS OF EXAMINATION.

#### Preliminary Examination for the Degree of B.L.

**ARTS SUBJECTS.**— The Examination in the Arts Subjects under section IX. will be the same as that for the Degree of M.A.

**FRENCH.**—*Montesquieu's Esprit des Lois*, Books i. to v. ; *Voltaire's Charles XII.* ; *Molière's Le Bourgeois Gentilhomme* ; *Victor Hugo, First Division of Selections (Poésie) contained in L'Euvre Complète de Victor Hugo (Extraits)*, Paris, Hetzel-Quentin, 1885. Some knowledge of the matter of the books prescribed as well as of their text is required. A passage from a work not prescribed may also be set. Moderate proficiency in French Prose Composition is required. Questions on French Grammar, Philology, and History will also be set. For these subjects reference may be made to *Saintsbury's Primer of French Literature*, *Brachet's Historical French Grammar*, or *Clapin's Primer of French Philology*, and *Charlotte Yonge's Primer of French History*.

**GERMAN.**—*Von Ihering, Der Kampf um's Recht* ; *Schiller, Die Belagerung von Antwerpen* ; *Lessing, Minna von Barnhelm* ; *Gaethe, Hermann und Dorothea*. Translation, Composition, and Grammatical and Historical Knowledge will be required, as in French. Reference may be made to *Gostwick and Garrison's German Literature*, or *Selss' Outline of the Literature of Germany* ; and *Sime's History of Germany* (Macmillan's Hist. Course for Schools).

#### Law Examinations for Degrees of LL.B. and B.L.

The examinations for LL.B. and B.L. in Session 1892-93 will embrace the following books and subjects, viz. :—

*In Civil Law.*—Justinian's Institutes, with Moyle's Introduction, Commentary, etc.

*In the Law of Scotland.*—Bell's Principles of the Law of Scotland, and the Professor's Lectures.

*In Conveyancing.*—Professor A. M. Bell's Lectures on Conveyancing. The constitution, transmission, and extinction of Heritable Rights according to the Law of Scotland.

*In Public Law.*—(1) History and Philosophy of Law; (2) Public International Law; and (3) Private International Law. Authorities recommended—Maine's Ancient Law; Ahrens' Cours de Droit Naturel, or Lorimer's Institutes of Law and Law of Nations, or Trendelenburg's Naturrecht; Hall's or Woolsey's International Law, or Twiss' Law of Nations, or Heffter's Droit International de l'Europe, together with the prize cases reported in Tudor's Leading Cases in Mercantile and Maritime Law, or Bluntschli's Völkerrecht, together with the above cases; the Eighth Volume of Savigny's System translated by Guthrie.

*In Constitutional Law and History.*—(1) History of the Constitution during the 16th and 17th centuries; (2) Existing Constitutional Law. Authorities recommended—Hallam's Constitutional History of England, or Taswell-Langmead's English Constitutional History; Central Government, by Traill; The Electorate and the Legislature, by Spencer Walpole (English Citizen Series); Leading Cases in Constitutional Law, by Thomas; Dicey's Law of the Constitution.

*In Medical Jurisprudence.*—Infanticide; Concealment of Pregnancy; Rape; Wounds; Identity; Presumption of Survivorship; General Evidence in Cases of Poisoning; Poisoning by Arsenic; Examination of Blood Stains; Legitimacy; Insanity. (Text-Book, Principles of Forensic Medicine, by Guy and Ferrier.)

*In Moral Philosophy.*—The subjects of examination for the Degree of M.A. Those who have not attended the Class of Moral Philosophy will be examined in Sidgwick's Methods of Ethics, and will also be expected to show a general knowledge of the history of Ethical Philosophy in modern times.

*In Political Economy.*—The General Principles of Political Economy and the 2nd Book of Mill's Political Economy.

No candidate for the Degree of B.L. is admitted to an Examination in Law Subjects until he has passed in all the subjects of the Preliminary Examination.

By a regulation of the Faculty of Law not fewer than two subjects in Law must be taken up at one time by each candidate for the degree of LL.B. or B.L.

For dates of Examinations and times for giving in names, see page 161.

TABLE OF EXAMINATIONS FOR DEGREES IN LAW, TO BE HELD DURING SESSION 1892-93.

Fee, Names to be given in and Fees paid to Assis- tant-Clerk (Matriculation Office). Date. <sup>1</sup>	Subjects of Examination.	DATES OF WRITTEN EXAMINATIONS AND HOURS AT WHICH THE DIFFERENT PAPERS WILL BE SET.		Examina- tion.
		September—October, 1892.	March—April, 1893.	
15th Sept. or 8th Mar., 1st Oct. or 11th Mar., 1st Oct. or 10th Mar., 1st Oct. or 10th Mar.,	French, German, English Literature, Latin, Greek, Logic, Moral Philosophy, Mathematics, Natural Philosophy, Scots Law, Public Law, Civil Law, Constitut. Law & Hist., Conveyancing, Medical Jurisprudence, Moral Philosophy, Political Economy,	Thurs., 29th Sept., 3-5 p.m. Sat., 1st Oct., " 10 a.m. Sat., 22nd " 10-12-1-3, and 4-6 p.m. Mon., 24th " 10-12 and 1-3 p.m. Tues., 25th " 10 a.m. Wed., 26th " 10-1 and 2-5 p.m. Thurs., 27th " 10-1 and 2-5 p.m. Fri., 28th " 10-1 and 2-5 p.m. Sat., 29th " 10 a.m. Mon., 17th Oct., 9 a.m. " " 2 p.m. Tues., 18th " 9 a.m. " " 2 p.m. Wed., 19th " 9 a.m. " " 2 p.m. Thurs., 27th " 10 a.m. " " 10 a.m.	Thurs., 29th Mar., 3-5 p.m. Sat., 25th " 10 a.m. Sat., 8th Apr., 10 a.m. Mon., 10th " 10-12, 1-3, and 4-6 p.m. Tues., 11th " 10-12 and 1-3 p.m. Wed., 12th " 10 a.m. Thurs., 13th " 10-1 and 2-5 p.m. Fri., 14th " 10-1 and 2-5 p.m. Sat., 15th " 10-1 and 2-5 p.m. Wed., 5th " 9 a.m. Thurs., 6th " 9 a.m. " " 2 p.m. Fri., 7th " 9 a.m. " " 2 p.m. Thurs., 13th " 10 a.m.	1893. PRELIM- INARY EXAM. FOR B.I.L.

<sup>1</sup> When Names are not given in and Fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the Candidate can be enrolled for examination. A Candidate is not held to be enrolled for examination until his Name is entered, the Fee paid, and all the necessary Certificates, etc., lodged.

## 6.—GRADUATION IN DIVINITY.

## Degree of Bachelor of Divinity.

This Degree, having been revived in the University by authority of the University Court and Senatus Academicus, is conferred on such qualified candidates as have satisfied the Members of the Divinity Faculty of their proficiency in the following departments, viz. :—

I. Hebrew, New Testament Exegesis, and Apologetics.

II. Divinity, Church History, and Biblical Criticism.

The examinations in the First Department are held in November (3rd and 4th November, 1892); those in the Second Department, in March (30th and 31st March, 1893).<sup>1</sup>

The scheme of examination for Session 1892-93 is as follows :—

## I. FIRST DEPARTMENT—

(a) *Hebrew*.—(1) Genesis i.-xxv., Text and Exegesis; (2) Isaiah xl.-l.iii., and Psalms xlii.-lviii., Text, Exegesis, and Introduction; (3) Portions of unpointed Hebrew to be punctuated; (4) Translations from English into Hebrew.

Books that may be used :

Spurrell's Notes on the Hebrew Text of the Book of Genesis; the relative Commentaries of Cheyne, Delitzsch, Perowne; the Introductions to the Old Testament by Bleek and Driver. Candidates will be expected to know Müller's Outlines of Hebrew Syntax, and to be acquainted with the critical analysis of the Book of Genesis.

(b) *New Testament Exegesis*.—(1) Introduction to the Acts of the Apostles. (2) Exegesis of Matthew iv. 17-xvi. 20, with critical comparison of the parallel passages in Mark and Luke. (3) Exegesis of the Epistles to the Corinthians.

Books which may be consulted :

(1) Schneckenburger, Ueber den Zweck der Apostelgeschichte; Lekebusch, Die Composition und Entstehung der Apostelgeschichte. (2) The relative Commentaries of Meyer, de Wette, or Alford; Bleek, Synoptische Erklärung der drei ersten Evangelien. (3) The Commentaries of Meyer, Alford, Stanley, Schmiedel.

(c) *Apologetics*.—Ideas of Religion and Revelation; Messianic Prophecy.

Books which may be consulted :

The relative sections of general treatises on Apologetics or Dogmatics [see II., below]; Krauss, Lehre von der Offen-

<sup>1</sup> Candidates who, under the old regulations, have already passed in Hebrew and Biblical Criticism may present themselves for examination in Divinity and Church History, and vice versa.

barung ; Voigt, Fundamental-Dogmatik ; Ewald, Revelation ; Fairbairn, Prophecy ; Orelli, Old Testament Prophecy ; Delitzsch, Riehm, Gloag, on Messianic Prophecy.

## II. SECOND DEPARTMENT—

- (a) *Divinity*.—Doctrine of the Trinity ; Subjective Soteriology ; Biblical Theology—The Synoptic Gospels.

The following books may be consulted :

The Treatises on Dogmatics by Martensen, Oosterzee, Kahnis, Lipsius, Dorne, Biedermann, Shedd, Nitzsch ; Hodge, Systematic Theology ; Strong, Systematic Theology ; Baur, Lehre von der Dreieinigkeit ; Köstlin, Der Glaube ; Schmid, Weiss, Oosterzee, on Biblical Theology of the New Testament ; Reuss, History of Christian Theology in the Apostolic Age ; Wendt, Inhalt der Lehre Jesu.

- (b) *Church History*.—The Ante-Nicene Period.

The following are among the books which may be consulted

Neander, Planting of Christianity ; Robertson, History of the Christian Church ; Schaff, History of the Christian Church ; Pressensé, Early Years of Christianity ; Chastel, Histoire du Christianisme.

- (c) *Biblical Criticism*.—(1) Textual Criticism. (2) Hermeneutics

Books which may be consulted :

(1) Davidson, Biblical Criticism ; Tregelles, Treatise in Horne's Introduction, vol. IV.; Scrivener, Plain Introduction to the Criticism of the New Testament (third edition) ; Westcott and Hort, Prolegomena to the Greek Testament. (2) Davidson, Sacred Hermeneutics (1843), or Treatise on Interpretation in Horne's Introduction, vol. II.; Ernesti, Institutio Interpretis ; Immer, Hermeneutik des Neuen Testamente.

The scheme of examination for Session 1893-94 will be as follows:—

## I. FIRST DEPARTMENT—

- (a) *Hebrew*.—(1) Genesis, xxvi. 1. ; (2) Isaiah liv.-lxvi. ; Psalms lix.-lxxii. ; (3) Portions of unpointed Hebrew to be punctuated ; (4) Translations from English into Hebrew.
- (b) *New Testament Exegesis*.—(1) Introduction to the Gospels of Mark and Luke ; (2) Exegesis of Mark i. 1-viii. 26, with critical comparison of the parallel passages in Matthew and Luke ; (3) Exegesis of the Epistles to the Colossians and Philemon.
- (c) *Apologetics*.—Antitheistic Theories ; Inspiration.

## II. SECOND DEPARTMENT—

- (a) *Divinity*.—Doctrine of Christ's Person and Work ; Biblical Theology—Discourses in Book of Acts and First Epistle of Peter.

(b) *Church History*.—Post-Reformation Period, 1515-1647.

(c) *Biblical Criticism*.—(1) Textual Criticism ; (2) Hermeneutics.

All Graduates in Arts of any of the Universities of Scotland, or of England, or of Ireland, or of a Colonial University whose Degrees shall for this purpose have been specially recognized by the University Court, who have studied at this University during at least two sessions, and "who have gone through a due course of Theological training, whether in this University or in any other Theological School in Scotland or England," may become candidates for the Degree.

Students who have completed the second year of their Divinity studies, subsequent to the termination of their Course in Arts, may present themselves for examination in the First Department.

Forms of application for examination may be obtained from the Assistant-Clerk (Matriculation Office). These forms, when filled up, must be forwarded by the Candidates to the Professor of Divinity, along with certificates of attendance on the required classes, and, having been certified by him, must then be transmitted to the Assistant-Clerk (Matriculation Office), on or before 28th October or 24th March respectively. A fee of £1 11s. 6d. is payable on enrolment for each department.

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#### *Regulations for the Honorary Degree of Doctor of Divinity*

This Degree is now conferred in accordance with the following Regulations, which were adopted by the Senate on 28th February and 11th April, 1889 :—

I. At the commencement of every session a committee shall be appointed, to be called the Committee on the Degree of D.D., consisting of the Principal, three Professors from the Faculty of Theology (of whom the Professor of Divinity shall be one), and one Professor from each of the other Faculties.

II. It shall be the duty of this Committee to select persons to be recommended to the Senate for the Degree ; but the Committee shall not entertain private or personal applications.

III. The Committee shall present a report embodying its recommendations to the Senate at the first meeting in March in each year.

IV. In the case of every person recommended for the Degree the report shall contain a statement of the grounds on which the recommendation is founded, showing :—

1. Whether he is an alumnus of this University, and whether he already holds the Degree of B.D., or any other University Degree.

2. Whether his character and professional standing are such as to warrant the conferring of the proposed distinction.
3. Whether, (a) being a Bachelor of Divinity of eight years' standing, he has passed a higher examination in any three of the six subjects embraced in the examination for the Degree of B.D.; or, (b) being a Bachelor of Divinity of fifteen years' standing he has published a contribution of merit to Theological Literature.

V. No resolution to confer the Degree of D.D. shall be moved in the Senate until a fortnight after the report of the Committee has been presented.

The University dues for the Degree of D.D. shall be, as heretofore, Twenty Pounds; under deduction of the dues previously paid on examination for the Degrees of M.A. and B.D.

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#### 7. HONORARY DEGREE OF DOCTOR OF LAWS.

The following resolutions regulating the procedure of the Senate in conferring the honorary Degree of LL.D. were adopted by the Senate on 7th March and 11th April, 1889:—

1. At the commencement of every Session a Committee shall be appointed, to be called the Committee on the Degree of LL.D., consisting of the Principal, three Professors from the Faculty of Arts, and two Professors from each of the other Faculties.
2. It shall be the duty of this Committee to select persons to be recommended by the Senate for the Degree; but the Committee shall not entertain private or personal applications.
3. The Committee shall present to the Senate a report embodying its recommendations at the first meeting in March in each year.
4. In the case of every person recommended for the Degree, the report shall contain a statement of the grounds on which the recommendation is founded, showing:—
  - (a) Whether he is an alumnus of this or any other University, and whether he already holds any Academical Degree.
  - (b) Whether he is the author of any work of acknowledged merit, or has otherwise contributed to the progress of learning and science.
  - (c) And, in general, whether his character, profession, and position in society are such as to warrant the conferring of the proposed distinction.
5. No resolution to confer the Degree of LL.D. shall be moved in the Senate until a fortnight after the report of the Committee has been presented.

## Academic Dress.

## GRADUATES OF THE UNIVERSITY.

On ceremonial occasions the Graduates are expected to appear in the Gown and Hood proper to their degrees.

The ordinary Gowns to be worn by Graduates of the University of Glasgow are of black silk or stuff, of similar shape to those appropriated to the corresponding degrees in the other British Universities.<sup>1</sup>

The Hoods for the different Degrees are as follows :—

B.A., Black Silk, bordered inside with Red Purple Silk (colour of Bell Heather—*Erica Cinerea*).

M.A., Black Silk, lined with Red Purple Silk.

B.Sc., Black Silk, lined with Gold Coloured Silk (colour of Whin Blossom—*Ulex Europea*).

D.Sc., Black Velvet, lined with Gold Coloured Silk.

B.L., Black Silk, bordered inside with Venetian Red Silk (colour of Clove Carnations).

LL.B., Black Silk, lined with Venetian Red Silk.

LL.D., Black Velvet, lined with Venetian Red Silk.

M.B. and C.M., Black Cloth, lined with Scarlet Silk.

M.D., Black Silk, lined with Scarlet Silk.

B.D., Black Silk, bordered with Black Velvet, lined with Red Purple Silk.

D.D., Black Velvet, lined with Black Silk, or (if the Graduate be Master of Arts) with Red Purple Silk.

## UNDER-GRADUATES.

By a Statute of the Commissioners appointed by the Act, 1690, chapter XVII., of the Parliament of Scotland, “for the Visitation of Universities and Schools,” it was enacted that “all the students in the several Universities and Colleges within this kingdom be obliged to wear gowns during the time of the sitting of the Colleges,” and that “the Regents or Masters be obliged to wear black gowns, and the students red gowns ; and, in regard that wearing of gowns has never been the custom in the College of Edinburgh, the Commissioners do therefore recommend to the Masters of that College to endeavour to bring the custom of wearing gowns there into practice.” It appears from the University records that the wearing of red gowns had been previously the practice in Glasgow, and it continued to be the practice in all the Arts classes which existed at the date of this statute uninterruptedly till recently.

The General Council of this University having requested the University Court to recommend to the Senate the propriety of requiring

<sup>1</sup> The Robemakers to the University have standard patterns of the gowns, which, it may be stated for the information of those at a distance, are of the same shape with the ordinary (or undress) gowns of the corresponding degrees at Cambridge.

the students to conform to the ancient practice of this University as to Academic dress ; and the University Court having remitted the subject to the determination of the Senate, with an expression of regret that the Academical Dress formerly worn by the Arts students has of late years been laid aside, the Senate has given notice that the proper Academic Dress for students in Arts is the red gown.

While this notice does not apply to students not in the Faculty of Arts, all students in the University are entitled to wear the red gown.

#### CEREMONY OF GRADUATION.

The following are the regulations adopted by the Senate :—

All Degrees honorary or gained by examination, shall be publicly conferred, except in special cases to be decided by the Senate.

Candidates for Graduation are required to appear in black gowns with the hoods appropriate to their degrees ; those who are already graduates, in the costume proper to their previous degree.

*[The later part of the present issue of the Calendar from page 173 onward, was sent to press first in the hope that the changes necessitated by the new Ordinances issued by the Universities Commissioners might have been made on the earlier part. The issue of the Ordinances has been delayed beyond 1st July, and consequently it has been found necessary to print the Ordinances in an Appendix, and refer to them by notes appended to the pages of the first portion of the Calendar. This arrangement has so abridged the earlier part that there are no pages 168-172.]*



**VII.—BURSARIES, SCHOLARSHIPS, &c., PRIZES.**

N.B.—No alumnus of the University is allowed to hold at one time more than one Bursary, Scholarship, or Fellowship, except in cases provided for by the Regulations.

In the case of Bursaries in the gift of the Senate, in appointing to which "a preference" is to be given to certain names, &c., by a "preference" the Senate understand, in every instance, a preference *ceteris paribus*.

**A. BURSARIES ARRANGED ACCORDING TO FACULTIES.****BURSARIES IN THE FACULTY OF THEOLOGY.**

Bursars in the Faculty of Theology are required to attend each session the Divinity Class and any two of the three classes of Hebrew, Church History, and Biblical Criticism.

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
			Years.
Adam, John,	3	4	£15
Black,	2	3	£42
Boyd,	1	3	£11
Boyd and Sanders,	1	3	£13 16/8
Brown or Ettles,	2	3	£21
Dundonald,	6	2	£41 2/6
Gilhagie,	1	4	£6 6/
Hastie,	2	3	£25
Logan,	1	3	£16
Lorimer,	4	3	£25 & £20
Lumsden,	1	4	£15
Macfarlane,	1	3	£36
Marshall,	1	4	£17
Muir,	1	3	£36
Muir Divinity,	2	2	£25
Notman,	1	3	£17
Ross, John, jun.,	1	3	£36
Struthers,	1	3	£13 6/8
Wilsone,	1	3	£13 6/8

**BURSARIES IN THE FACULTY OF LAW.**

Merchants' House,	1	3	£25
Walkinshaw-Young,	1	2	£18
Major Young's Fund,	2	6 and 2	£20

**BURSARIES IN THE FACULTY OF MEDICINE.**

Brisbane,	1	4	£42
Davidson,	1	3	£40
Malcolm Kerr (Chem.).	1	3	£18
Logan,	1	4	£16
Lorimer,	4	3	£25 & £20
Macarthur,	1	2	£20
Macfarlane,	1	3	£40
Mackintosh,	1	1	£30
Marshall,	1	4	£17
Merchants' House,	2	4	£25
Monteith, John,	2	2	£20
Rainy,	2	2	£20
Walton,	1	4	£36
Weir, Andrew,	1	1	£18

## BURSARIES IN THE FACULTY OF ARTS.

Bursars in the Faculty of Arts are required to attend at least two classes each session.

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Adam, James,	3	4	£11
Adamson,	1	3 or 4	£20
Angus and Mearns Benevolent Society,	2	4	£15
Ayrshire Masonic,	1	4	£20
Barbour (Kilbarchan),	1	3	£16
Biggart Memorial,	10	4	£25
Black,	2	4	£21
Blackquarry School,	1	4	£13
Brand,	3	4	£24
Brown,	1	4	£6 13/4
Brown, Ebenezer,	1	3	£37
Brown-Paton,	2	3	£16
Browne (Ayrshire),	2	4	£20
Buchanan,	2	3	£13
Clark, John (Mile-end),	22	4	£30
Cowan,	1	3	£26 13/4
Craig,	1	4	£25
Craig, Archibald,	1	2	£9
Crawfurd (or Bishop's),	1	4	£12
Davidson,	1	3	£40
Duncan's Bute,	2	4	£35
Dundonald,	8	4	£40
Elder,	2	2	£50
Ewing, James,	4	4	£20
Forfar,	4	4	£30
Foundation,	4	4	£10
Fullarton of Overton,	5	2	£15 & £20
General Council,	5	3 or 2	£20
Gilchrist,	1	3	£8
Glasgow City Educational Endowm'ts,	20	4 or 2	£25
Grant, George,	1	3 or 4	£45
Grant, George, jun.,	1	4	£45
Hannay,	3	3	£15
Hastie,	1	4	£25
Howison,	1	4	£9
Hutchesons' Educational Trust,	20	4	£20
Hyndford,	1	4	£6 13/4
Jaffrey, John Ferguson,	1	2	£34
Kerr, Malcolm (Nat. Phil.),	1	3	£18
Laing,	1	3	£20
Leadbetter,	1	4	£9
Leyden, John,	1	3	£13
Lochhead, James,	1	3	£16
Lochhead and Mitchell,	2	4	£32
Lorimer (4 Phil. 4 Math.),	8	3	£25 & £20
Lusk,	1	3	£33
M'Crie,	4	4	£25
M'Culloch,	1	4	£15 10/
MacDougall,	3	3	£33
M'Ewen, Malcolm (Arts or Science),	1	4	£16
MacGrouther,	2	4	£20 & £15
Maitland Club,	1	—	—

BURSARIES IN THE FACULTY OF ARTS—*Continued.*

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Marshall Trust, - - - - -	10	5	£30
Menzies, - - - - -	4	4	£45
Merchants' House, - - - - -	1	4	£25
Metcalfe, - - - - -	4	2	£25
Monteith, - - - - -	3	3	£14
Muir (Civil Engineering), - - - - -	2	1	£12 10/-
Muir (Mathematics, Senior), - - - - -	1	1	£18
Muir (Mathematics, Junior), - - - - -	1	2	£9
Orr-Ewing Dumbartonshire, - - - - -	16	4	£25
Paterson, James, - - - - -	1	4	£23
Patrick, - - - - -	2	2	£80 and £40.
Perthshire Society, - - - - -	1	3	£25
Pollock, - - - - -	3	3	£40
Ramsay-Walker, - - - - -	2	4	£12
Ross, - - - - -	1	4	£4 3/4
Scott, - - - - -	3	4	£25
Stevenson of Dalry, - - - - -	2	4	£35
Stewart, - - - - -	3	4	£15
Stirlingshire Society, - - - - -	1	4	£25
Thomson, James (Philosophical), - - - - -	1	2	£11

## BURSARIES IN THE FACULTIES OF ARTS AND THEOLOGY.

Ardkinglass, - - - - -	1	8	£9 10/-
Buchanan (Bellfield), - - - - -	2	7	£50
Exchequer, - - - - -	6	6	£10 & £13 6/8
Hamilton, - - - - -	6	6	£20 & £25
Leighton, - - - - -	2	7	£9
Williams, - - - - -	4	3 or 4	£40

## BURSARY IN THE FACULTIES OF ARTS OR THEOLOGY.

Lamb, - - - - -	1	—	£12
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## BURSARIES IN THE FACULTIES OF ARTS, LAW, OR MEDICINE.

Macdonald, - - - - -	2	4	£14
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## BURSARIES IN THE FACULTIES OF THEOLOGY, LAW, OR MEDICINE.

Armagh, - - - - -	3	3	£25
Old Library, - - - - -	1	4	£11 2/23

## BURSARIES IN ANY FACULTY.

Ayrshire Society, - - - - -	4	3	£15
Celtic Society (Campbell), - - - - -	1	1 or more	£5
Denny, - - - - -	4	4	£30
Dumfriesshire Society, - - - - -	2	4	£15
Ferguson, James, - - - - -	2	2	£80
Forrest, - - - - -	5	5 or less	£22
Gibson, John, - - - - -	2	4	£20
Kintyre (Ker), - - - - -	1	3	£20
Kintyre (Alexander Love), - - - - -	1	4	£11
M'Kechnie, - - - - -	2	4	£35
Shearer, - - - - -	3	3	£30
Smith, - - - - -	2	1 or more	£9
Taylor, - - - - -	2	4 or 5	£12

## B.—BURSARIES (ALPHABETICALLY ARRANGED).

JAMES ADAM BURSARIES (*Arts*).—Three in number, founded by the Rev. James Adam, minister of Cumbræc, who died in 1830. They are appropriated to students in the Gown Classes, and tenable for four years. In appointing to one of the Bursaries, preference is given to the kindred of the founder, and in appointing to another to students of the name of Adam. The appointment is vested in the Earl of Glasgow, the Professor of Divinity, and the Minister of Cumbræc. Value, about £11 per annum each.

*Bursars*—<sup>1</sup> Norman Macleod Wright, 1888; Charles W. Hutcheson, 1890; Donald Douglas, 1891.

JOHN ADAM BURSARIES (*Theology*).—Three in number, founded by Mr. John Adam, of the Inner Temple, who died in 1836. They are open to competition to students in Theology of the first year; and, after examination, are adjudged to the three students who shall be declared to be the most deserving, and to have made the highest attainments in Latin, Greek, Logic, Moral and Natural Philosophy, and Mathematics. In appointing to one of the Bursaries, there is a preference, *ceteris paribus*, to the kindred of the founder, and to students of the name of Adam or Dollar. The trustees and patrons are the Principal, the Professor of Theology, and the five Professors of the Gown Classes. These Bursaries are tenable for four years. Value, £15 to each Bursar.

*Bursars*—<sup>1</sup> Andrew Campbell, 1889 (1888); James M. Binnie, M.A., 1890; Robert L. Macnie, M.A., 1891 (1890).

ADAMSON BURSARY (*Arts*).—Founded by the Rev. David Adamson, minister of Fintry, in 1674, is appropriated to a student in Philosophy, son of a freeman in one of the seven Incorporate Trades of Stirling. It is tenable for four years by a student entering the Greek Class, for three years by a student entering the Logic Class; and the appointment is vested in the Convener Court of Stirling. Value, the free proceeds of the capital, which now amounts to about £500.

*Bursar*—Archibald Watt, 1891.

ANGUS AND MEARN'S BENEVOLENT SOCIETY'S BURSARIES (*Arts*).—Two in number, founded in 1860 by the Glasgow Angus and Mearns Benevolent Society. Value, £15 per annum each. They are, as a rule, tenable for four years in the Arts Classes, and are open only to natives, or sons of natives, of the counties of Forfar and Kincardine, who are desirous of obtaining a University education, but whose circumstances are such as to render them unable to accomplish it without the aid of a Bursary. When a vacancy occurs applications are to be made, not later than 1st September, to Mr. Stuart Spence, 52 Virginia Street, Glasgow.

*Bursars*—Robert Y. Graham, 1891; Edwin Lyell, 1891 (2 years).

<sup>1</sup> Vacant through lapse of time.

ARDKINGLASS BURSARY (*Arts and Theology*).—Founded in 1733, by Sir James and Lady Campbell, out of a fund which Colonel John Blackader had by his Will set aside for pious uses. Tenable for eight years—five in Languages and Philosophy, and three in Divinity. Patron, Mr. Geo. F. W. Callander, of Ardkinglass and Craigforth. Bursar to be found duly qualified by Principal and Masters; and to take the degree of M.A. before passing to Divinity. Value, £9 10s. (Vacant.)

ARMAGH BURSARIES (*Theology, Law, or Medicine*).—Three in number, founded in 1733 by Hugh Boulter, Archbishop of Armagh, who endowed the College with the annual rent of certain lands in the neighbourhood of Glasgow. By ordinance of the Universities Commissioners, of date 17th May, 1862, these three Bursaries were raised from £15 to £25 per annum each (the funds having accumulated through vacancies), and the restrictions as to birthplace were removed. On each vacancy, the most distinguished Graduate in Arts of the year, who offers himself as a candidate, is appointed by the Senate.

The Bursaries are tenable for three years, during which the holders must give regular attendance on the classes of this University, as students of Theology, Law, or Medicine. One Bursar is appointed at the commencement of each session, and no appointment is made of more than one Bursar in the same year.

Names of candidates to be sent in to the Clerk of Senate on 1st December in each year.

*Bursar*—<sup>1</sup> John Lindsay, M.A., 1889; John White, M.A., 1891.

AYRSHIRE MASONIC BURSARY (*Arts*).—This bursary was founded in 1874, the funds for it being subscribed by the Masonic Lodges of Ayrshire. It is open to the sons of Freemasons, members of an Ayrshire Masonic Lodge, and is awarded by competition to a student of the first year. Candidates must be in attendance at school in Ayrshire or be resident in the county, and must not be more than eighteen years of age, at the examination. The bursary is tenable for four years or during Arts curriculum of Bursar, but cannot be held along with any other Bursary. The Bursar must pass the Departmental Examinations for the Degree of M.A. in regular course, on pain of suspension or deprivation. Value, the interest of the mortified fund and annual subscriptions, not exceeding in all £25. A Bursary of at least £20 will be open to competition at the beginning of session 1892-93. Applications should be lodged with the Secretary of the Trust, Mr. J. M. M'Cosh, Clydesdale Bank, Dalry, Ayrshire, on or before the first day of October. The names of candidates approved by the Patrons will be sent by him to the Clerk of Senate to be entered at the University competition for Bursaries for students of the first year.

Vacant through lapse of time.

GLASGOW AYRSHIRE SOCIETY'S BURSARIES (*Any Faculty*).—Four in number, founded in 1868 and 1879 by the Glasgow Ayrshire Society, and consisting of the free annual proceeds of a sum of £1,501 11s. subscribed by members of the Society, to be devoted to the establishment of Bursaries in the University of Glasgow, and invested for that purpose. The Bursaries, which are at present £15 per annum each, are tenable for not more than three years, and are open to applicants between the ages of 14 and 24, who are descendants of members of the Society, or natives of Ayrshire, or sons of natives resident in Glasgow, who are in circumstances rendering the aid of a Bursary necessary or desirable. Patrons—the Directors and Office-bearers of the Society. Secretary, Mr. James Graham Girvan, 186 West George Street, Glasgow.

*Bursars*—Barclay Wiggins, 1890; Daniel Scott, 1891; Hugh M'Intyre, 1891.

BARBOUR KILBARCHAN BURSARY (*Arts*).—Founded in 1887 by the Executors of Miss Mary Barbour of Plymouth Grove, Manchester, who bequeathed £500 free of legacy duty for the purpose of endowing a Scholarship for the Board School of Kilbarchan, Renfrewshire. The Bursary is open to students of the first year, and is tenable for three years. Candidates must not exceed the age of eighteen years, must produce a certificate from the Kilbarchan School Board that they have attended three years at the Kilbarchan Village or Town Board School, are of irreproachable character, and have given satisfactory evidence of good natural ability, diligence and proficiency in their studies, and must be examined at the ordinary Bursary examination.

*Bursar*—James Buchanan, 1891.

BIGGART MEMORIAL BURSARIES (*Arts*).—Ten in number. Value, £25 per annum each. Founded in 1876 by Mr. Thomas Biggart, of Baidlandhill, Dalry, Ayrshire, in memory of his son, Thomas Biggart, an alumnus of Glasgow University, who died in 1874. The Bursaries are open to competition at the annual Bursary and Preliminary Examination to students who are entering on the Arts Course at the University of Glasgow, with a view to the ministry of the United Presbyterian Church, and are designed to enable such students more easily to pursue that curriculum and obtain, as far as practicable, the Degree of Master of Arts.

The Bursaries are tenable for four years.

The Bursary Fund consists of the sum of £6,000, invested in real estate in Scotland, and the surplus revenue may be applied to prolong the tenure of any of the Bursars for a fifth year, or to the granting of additional Bursaries on the same conditions as are applicable to the others.

The Bursary is payable by equal moieties on the second day of February and at the close of the Winter Session; and the Bursar,

on applying to the Principal for a precept for the second moiety, is required in each year to produce, besides the usual certificate from the Professors, a certificate signed by the Chairman and Clerk of the Theological Committee of the U.P. Synod, to the effect of his being recognized by that Church as an accepted student, pursuing his studies with a view to the ministry therein.

*Bursars*—<sup>1</sup> Robert M. Buchanan, 1888 ; <sup>1</sup>Joseph M. B. M'Intyre, 1888 ; <sup>1</sup>Thomas Wardrop, 1888 ; William C. Miller, 1889 ; Andrew Patrick, 1889 ; Andrew M'Lachlan, 1889 ; Thomas Anderson, 1890 ; Samuel H. M'Ewing, 1890 ; James Mackenzie, 1890 ; George Lamb, 1891 ; Herbert A. Whitelaw, 1891.

BLACK BURSARIES (*Arts*).—Founded by Mrs. Janet Black, widow of the Rev. William Black, D.D., minister of the Barony Parish, Glasgow. Mrs. Black died in 1876, and by her Settlement, made provision, *inter alia*, for the institution of two Bursaries in Arts, each of the annual value of £20 or thereby. The Bursaries are open to competition to students entering on their first session in the University ; and the Bursars are required to attend the qualifying courses for a Degree in Arts.

*Bursars*—<sup>2</sup> John S. Thomson, 1890 ; William K. Gillies, 1891.

BLACK BURSARIES (*Theology*).—Founded by Mrs. Janet Black—who died in 1876—in memory of her husband, William Black, D.D., Minister of the Barony Parish of Glasgow. The Bursaries are entrance Bursaries, two in number, each of the annual value of £40 or thereby, tenable for three years. The competition is open to candidates holding a degree in Arts in any Scottish University, or who have passed their examinations in any two departments for graduation in Arts. Candidates must be members of the Established Church of Scotland.

*Bursars*—<sup>1</sup>James W. Macdonald, M.A., 1889 ; Hugh Y. Arnott, M.A., 1890.

BLACKQUARRY SCHOOL BURSARY (*Arts*).—Founded in 1876 by the Trustees of the Blackquarry School, Port Dundas, Glasgow. The Police Board of Glasgow having acquired the school compulsorily under “The Glasgow Police Acts,” the Trustees resolved to apply the proceeds, after payment of all claims upon the institution, in founding a Bursary in the University of Glasgow. The Bursary is open to competition to Students in the Faculty of Arts on their first entering the University, under the same regulations as those of the competition Bursaries in the University, and is tenable for four years, subject to the condition that the Bursar shall attend the qualifying course for the Degree of M.A. Value, the annual income of a sum of £420 (about £13).

*Bursar*—George M'Pherson, 1889.

<sup>1</sup>Vacant through lapse of time.

<sup>2</sup>Vacant—Bursar appointed to a bursary of greater value.

BOYD BURSARIES (*Theology*).—In 1635, Mr. Zachary Boyd founded three Bursaries for students in Divinity, tenable for two or four years. Value, £5 10s. per annum each. The patrons of two were the members of the City Council ; and the appointment of the third was vested in the Merchants' House of Glasgow. Preference to burgesses' sons, particularly of the name of Boyd.

By ordinance of the Universities Commissioners, of date 17th May, 1862, the two Bursaries in the gift of the Town Council were conjoined into one, tenable for three years ; the Bursar to be M.A. The Bursary in the gift of the Merchants' House is now combined with the Sanders Bursary—(See below).

*Bursar*.—(Town Council)—<sup>1</sup>Archibald B. Scott, M.A., 1889.

BOYD AND SANDERS BURSARY (*Theology*).—The Boyd Bursary (see above), value, £5 10s., in the gift of the Merchants' House of Glasgow, and the Sanders Bursary, value £8 6s. 8d., founded in 1728 by Mr. Robert Sanders of Auldhause, also in the gift of the Merchants' House, were, by an order obtained under the authority of the Endowed Institutions Commission in 1880, conjoined into one Bursary of £13 16s. 8d. per annum, tenable for not more than three years by a student attending the ordinary curriculum in the Faculty of Theology at the University of Glasgow. There is a preference, *ceteris paribus*, to the names Boyd, Sanders, Corbet, Colquhoun, and Wardrop. When a vacancy occurs applications are to be lodged with Wm. H. Hill, LL.D., Clerk of the Merchants' House, on or before 1st October.

*Bursar*.—<sup>1</sup>Robert L. Boyd, 1889.

BRAND BURSARIES (*Arts*).—Mr. Robert Brand, son of the late Mr. Robert Brand, coalmaster, Wishaw, by his Trust Disposition and Settlement, dated 28th June, 1873, directed his Trustees "to pay to the Senatus of the University of Glasgow the sum of £2,000, the income of said sum to be applied in payment of three Bursaries in Arts for the behoof of students in the University who shall be studying with a view to the ministry of the United Presbyterian Church." Mr. Brand died on 3rd July, 1873, but, in consequence of litigation, it was not till January, 1875, that the bequest, amounting, with interest, to the sum of £2,121 7s. 5d., was paid by the Trustees to the Senate. The Bursaries, which are tenable for four years, are of the annual value of about £24 each, and are awarded by public competition to students entering their first or second session in the Faculty of Arts ; the Bursars to graduate as M.A. at the end of their course.

*Bursars*.—<sup>1</sup>James Orr, 1889 (1888) ; James Ferguson, 1890 ; Alexander M. Wright, 1891.

BRISBANE BURSARY (*Medicine*).—Founded by Miss Christian Brisbane in 1777, in fulfilment of the intentions of her brother, Dr.

<sup>1</sup> Vacant through lapse of time.

John Brisbane, of Balbegno. Their father, Dr. Thomas Brisbane, was the first Professor of Anatomy in this University.

It is tenable by a student of Medicine for four years, and the salary is about £42 per annum. The family of Brisbane and the College present alternately. The applicant must be under twenty-two years of age, and must have the Degree of M.A.

Preference is given to the kin of the founder.

*Bursar*—<sup>1</sup>John Paterson, M.A., 1888.

BROWN BURSARY (*Arts*).—Founded in 1697 by Colonel Brown, of Maryland. Tenable for four years. Value, £5 per annum (increased to £6 13s. 4d. by addition from Students' Bursary Fund). The Patrons are the Principal and Professors of the University, who now award it by competition.

*Bursar*—William A. Morton, 1891.

BROWN OR ETTLES BURSARIES (*Theology*). Two in number, founded in 1867 by Miss Ettles, of Inverness, in memory of her brother-in-law, Dr. E. Brown, an alumnus of this University. The Bursaries consist of the annual interest and proceeds of a sum of £1,000, and are open to competition to first year's students of Divinity who have passed all the examinations required for the ordinary Degree of M.A.; with a preference, *ceteris paribus*, to such as can speak Gaelic. The Bursaries are tenable for three years.

*Bursars*—<sup>1</sup>William Metcalfe, M.A., 1889; Donald McDonald, M.A., 1891.

EBENEZER BROWN BURSARY (*Arts*).—Founded in 1884 under the Trust Disposition and Settlement of Mr. Ebenezer Brown, export bottler, West Campbell Street, Glasgow. Mr. Brown, who died on 31st July, 1883, bequeathed to the Senate the sum of £1,000, free of legacy duty, for the purpose of founding and maintaining a Bursary in the Faculty of Arts, to be granted to the student who shall stand highest in a competitive examination on such subject or subjects in Arts as the Senate may prescribe. The Senate have full power to vary such subject or subjects from year to year, and to lay down such regulations regarding the Bursary as they may see fit. The Bursary is open to competition to all students entering on their first or second year of attendance, provided that no student in his second year shall be eligible who on entering upon his first year of attendance passed the Preliminary Examination in Latin and Greek, and in consequence of having so passed attended the Senior Classes of those subjects. It is tenable for three years.

*Bursar*—<sup>1</sup>Charles W. Stewart, 1889.

BROWNE (AYRSHIRE) BURSARIES (*Arts*).—Two in number, tenable for four years, and each of the annual value of about £20, founded in 1871 by Mr. Hugh Browne, residing at Darvel, in the county of

<sup>1</sup>Vacant through lapse of time.

Ayr, who for this purpose, and in memory of his brother, the late Dr. Alexander Browne, of Buenos Ayres, mortified to the University of Glasgow the sum of £1,000. The Bursaries are awarded by competition. Candidates must be natives of the county of Ayr, or must have been educated for not less than four years in a school within the said county, and must be entering on their first session at the University. (One vacancy.)

*Bursar*—Thomas Hunter, 1889.

BROWN-PATON BURSARIES (*Arts*).—Founded in 1891 by Mr. Andrew Brown-Paton, Liverpool, in memory of his father, mother, and three sisters. The Bursaries are two in number, and are tenable for three years. They are open for competition to students of the first year, with a preference to natives of the parishes of Loudon or Galston in Ayrshire. Should no candidate from either of these parishes come up to the standard of the Entrance Examination then held in Arts, the Bursaries are open to candidates from any part of Ayrshire. Failing qualified candidates from Ayrshire the Bursaries are open to all students of the first year. In case of a vacancy, otherwise than by lapse of time, a student of the same standing is appointed by the Senate by examination or otherwise. Each Bursar receives one-half of the free proceeds of the capital sum, £1,000, paid over to the University Court by the founder. One Bursary will be awarded in November 1892.

*Bursar*—Robert C. Mitchell, 1891.

BUCHANAN BURSARIES (*Arts*).—Founded by the late Robert Buchanan, LL.D., Ardfillayne, Dunoon, formerly Professor of Logic and Rhetoric in the University of Glasgow, by Codicils to his Will, dated 26th December, 1871, and 26th March, 1872, in which, as a “token or expression of his gratitude and respect to the University of Glasgow, with which, as a student, or Professor, or member of the University Court, he had been connected for the space of fifty years,” he bequeathed the sum of £1,000 for the purpose of founding a Bursary or Bursaries for students in the Faculty of Arts, on the conditions that may appear to the Senatus best for the interests of the University. The Senate resolved to apply the annual proceeds to the support of two Bursars in Arts, each to hold his Bursary for three years, subject to the usual condition of attending two of the classes of the curriculum in each session; the Bursars to be appointed by competitive examination among students of the first year. Present value, £13 to each Bursar.

*Bursars*—<sup>1</sup>James Rodger, 1890 (1889); <sup>2</sup>William Gow, 1890.

BUCHANAN (BELLFIELD) BURSARIES (*Arts and Theology*).—Founded in 1875, in accordance with the Trust Disposition and Deed of Settlement of the late Misses Margaret Jane and Elizabeth

<sup>1</sup>Vacant through lapse of time.

<sup>2</sup>Vacant—Bursar promoted to another Bursary.

Buchanan of Bellfield, Glasgow. The Bursaries are two in number, and consist of the yearly proceeds of a sum of £4,200, vested in Reduced 3 per cent. Annuities. Open to matriculated students who may be prosecuting their studies at the University of Glasgow, with a view to their becoming licentiates and clergymen of the Established Church of Scotland. The Patrons are the Principal and such of the Professors as hold their appointments from the University Court. The Bursaries are tenable during the whole curriculum "or such portion thereof as to the said Principal and Professors may seem proper." The Bursars are appointed by competitive examination among students of the first and second years in Arts. Present value, £50 per annum to each Bursar.

*Bursars*.—John M. Dickie, 1889 ; Ephraim Henderson, 1890.

CELTIC SOCIETY'S CAMPBELL BURSARY (*Any Faculty*).—Founded in 1869 by the Glasgow Celtic Society. Value, at least £5. Tenable for one or more years by a native, or a son of a native, of the Highlands of Scotland, not under 14 nor above 20 years of age, whose circumstances are such as to render aid important. A preference, *ceteris paribus*, to Gaelic-speaking students. Additional Bursaries not exceeding £5 are also granted by the Society, when its funds permit, to Gaelic-speaking students. Applications to be made to the Honorary Secretary, Mr. Charles M. Williamson, 194 West George Street, Glasgow, on or before 1st October in each year. Application forms may be obtained from Mr. Williamson.

*Bursars*.—John M'Kenzie (Campbell Bursary), 1889 ; John M'Lean (Society Bursary), 1890 ; John M'Gregor (Society Bursary), 1890 ; John McCallum (Society Bursary), 1891 ; Charles F. Maclean (Society Bursary), 1891.

GEORGE A. CLARK BURSARIES OR SCHOLARSHIPS (*Arts, etc.*)—  
(See under "Scholarships.")

JOHN CLARK (MILE-END) BURSARIES (*Arts*). Founded in 1868 in accordance with the Trust Disposition and Deed of Settlement of the deceased Mr. John Clark, junior, of the firm of John Clark, junior, & Co., thread manufacturers, Mile-End, Glasgow. By a Deed of Constitution of date 1st August, 1866, the "Clark Bursary Fund" is placed under the management of twelve trustees. The Bursaries are to be at least two in number, of the annual value of £30, open for competition to all Protestant students of good moral character, sons of Protestant parents, entering on their first session in the Faculty of Arts (a preference, *ceteris paribus*, given to orphans), and are tenable for four years, subject to the condition that the Bursars proceed through the curriculum of Arts in Glasgow University. The competition is to be in writing, and the trustees are to appoint the subjects of examination. The Bursary fund consists of the residue of the Testator's estate, said residue amounting to

upwards of £30,000. Six Bursaries on this foundation will be competed for in November, 1892.

*Bursars*—<sup>1</sup>Robert G. Nisbet, 1888; <sup>1</sup>James T. Rankin, 1888; <sup>1</sup>Charles W. Thomson, 1888; <sup>1</sup>John Paton, 1888; George N. M. Birkett, 1889; William Blue, 1889; David H. Crawford, 1890; James Dick, 1890; William L. Ramsay, 1890; Robert B. Walker, 1890; Robert Howie, 1891; William M. R. Pringle, 1891; William Jordan, 1891; William Boyd, 1891; William H. Low, 1891; John Young, 1891.

**COWAN BURSARIES (AYR ACADEMY) (Arts).**—These Bursaries were founded by the late David Cowan, Esq. of Auchendrane, who bequeathed to the Directors of the Ayr Academy the sum of £2,000, to be invested and held by them in trust, and the annual income thereof applied as Bursaries, to promote the education of two students, one at each of the Universities of Edinburgh and Glasgow, who should have received their previous education, or part of it, at Ayr Academy. These Bursaries are now administered by the “Ayr Educational Trust.” Under Scheme 328, Section 26, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council on 8th February, 1890, the Governors are instructed to apply an annual sum of not less than £80 in establishing Bursaries for University education, to be called the Cowan Bursaries, each of the yearly value of not less than £20 nor more than £30. These Bursaries are awarded by competitive examination among those who have been pupils in the Ayr Academy for at least two years before the date of examination. The Governors have resolved to award them alternately to students of Glasgow and Edinburgh Universities. The Bursaries are tenable for three years, the total value of each being £80, payable by instalments of £30 per annum for the first two years, and £20 for the third year. On a vacancy, intending candidates must send in their names and addresses to the secretary, Mr. J. G. M’Skimming, 7 Wellington Square, Ayr, on or before the fifteenth day of October; and the Senate of the University of Glasgow undertakes the examination of candidates who offer themselves for the Bursary to be held at this University.

*Bursar*—(At Glasgow University) —John Wallace, 1891.

**CRAIG BURSARY (Arts).**—Founded by Mr. John Craig, merchant in Glasgow, in 1697, for students in Philosophy. Tenable for four years. Preference to kindred of Founder, and students of the name of Craig. Value, £8 6s. 8d. per annum, increased by the Patrons in 1880 to £25. Appointment by the Merchants’ House. Applications to be lodged with W. H. Hill, LL.D., Clerk to the Merchants’ House, on or before 1st October of the year in which a vacancy occurs.

*Bursar*—John B. Craig, 1890.

<sup>1</sup> Vacant through lapse of time.

ARCHIBALD CRAIG BURSARY (*Arts*).—The Rev. Archibald Craig, some time minister of the Free Church at Dalton, thereafter residing at Eaglesham, who died on 10th March, 1873, by his Will, dated 4th March, 1873, bequeathed a sum which, with accretions, now amounts to £250, to be devoted to the foundation of a Bursary in the University of Glasgow. The Trustees of the Bursary Fund are—the Minister for the time being of the Parish of Eaglesham, the Minister for the time being of the United Presbyterian Church, Newton-Mearns, and certain other gentlemen. The Bursary was founded in 1884. It is open to competition, at the annual Bursary Examination, to all students entering on the first session of attendance at the University, who are natives of the parishes of Eaglesham or Mearns, or who for two consecutive years have attended school in either of said parishes; is awarded by the Senate in accordance with the result of that examination; and is tenable for the first two years of such student's attendance at the University. The Bursary is payable at the close of the winter session. Should the Bursary be in abeyance during any session or sessions, from failure of students falling under the above description, the accumulation may, in the discretion of the trustees, be applied to the increase of the Bursary in any subsequent session or sessions, or may be added to the capital fund. (Vacant.)

CRAWFORD OR BISHOP'S BURSARY (*Arts*).—Founded by Captain Thomas Crawfurd, of Jordanhill, in 1576. Appropriated to a student in Languages. Tenable for four years. Value, a chalder of meal (£12 or thereby) per annum. The Patrons are the Principal and the Professors of the University.

By ordinance of the Universities Commissioners, dated 7th June, 1862, this Bursary is placed upon the same footing as the Forfar Bursaries (for which, see p. 190).

*Bursar*—<sup>1</sup>John Thomson, 1889 (1888).

DAVIDSON BURSARIES (*One in Arts and one in Medicine*).—Two in number, founded in 1881, in terms of the Trust Disposition and Settlement of Mrs. Eliza Davidson who bequeathed £2,0 0 for that purpose, the one bursary being in memory of her husband, John Davidson, surgeon, Newmilns, and the other in memory of her son, Francis John Ferguson Davidson. A preference is given, *ceteris paribus*, to the Founder's relatives, and to young men natives of the parishes of Muirkirk, Dalserf, Lesmahagow, and Loudon. One of the Bursaries is open to competition to students of the first or second year in the Faculty of Arts, and is tenable for three years, but the second moiety of the third year's Burse is not payable until the Bursar shall have obtained two out of the three Departmental Certificates for the Degree in Arts. The other Bursary, also tenable for three years, is awarded to the medical student who stands

<sup>1</sup> Vacant through lapse of time.

first in the First Professional Examination, provided that his attendance at the classes has not exceeded the requirements of the Ordinance. The Bursary in Medicine will be awarded at the close of the Medical Professional Examinations in October, 1892.

*Bursar in Arts*—James Gillespie, 1891.

*Bursar in Medicine*—<sup>1</sup>James Carslaw, M.A., 1889.

DENNY BURSARIES (*Any Faculty*).—Four in number, founded in 1875, by Mr. Peter Denny, engineer and shipbuilder, Dumbarton. Value, not less than £30 per annum each, and tenable for four years. Open for competition to all students entering the University who are not under fourteen years of age, and who have been pupils in regular attendance at the Dumbarton Burgh Academy for at least two years, one of which must be immediately preceding the date of such entry. One of the Bursaries will be competed for at the beginning of next session. The examination will be in the same subjects and at the same time as the examination for the other competition Bursaries. The Trustees are Mr. Peter Denny, Mr. John M'Ausland, the Principal and Professors, and the Assessor of the General Council in the University Court.

*Bursars*—<sup>1</sup>James A. Robertson, 1888; Allan M. Robertson, 1889; Alexander G. Craig, 1890; William Allan, 1891.

GLASGOW DUMFRIESSHIRE SOCIETY'S BURSARIES (*Any Faculty*).—Two in number, the one founded in 1874 and the other in 1876. They are in value, £15 per annum each, are tenable for four years, and consist of the annual proceeds of a sum subscribed by members of the Glasgow Dumfriesshire Society and invested for the establishment of Bursaries in Glasgow University. The Bursaries are open to first and second year's students, between the ages of 14 and 21, who are either descendants of members of the Glasgow Dumfriesshire Society, or natives of Dumfriesshire, or sons of natives resident in Glasgow, whose circumstances render the aid of a Bursary necessary or desirable. Application to be made to the Secretary, Mr. Francis Stoddart, 58 West Regent Street, Glasgow, not later than 1st September of the year in which a vacancy occurs.

*Bursars*—<sup>1</sup>Thomas M'Nay, 1888; John Affleck Hope, 1890.

DUNCAN'S BUTE BURSARIES (*Arts*).—Founded in 1875 for the benefit of natives of the island of Bute, by Mr. James Duncan, of Valparaiso, and afterwards of Rothesay, who by his Will of date 19th October, 1874, bequeathed £2,000 for this purpose. The Trustees and Patrons are the Principal, the Professor of Mathematics, the Professor of Natural Philosophy, and the Provost of Rothesay, all for the time being. Candidates must be natives of the island of Bute, and must be entering on their first or second session

<sup>1</sup> Vacant through lapse of time.

in the Faculty of Arts at the University. The Bursaries are two in number, tenable for four years; but the Patrons may in each case continue the Bursary for a fifth year to assist a student who may have been assiduous in his Academical studies, in private study, or in Continental travel, or other pursuits conducive to relaxation, combined with enlargement of his experience of men and things. The examination is in the same subjects and at the same time as the examination for the other competition Bursaries. There is a preference, *ceteris paribus*, to the name of Duncan, in such degree as the Patrons shall determine; in other cases of equality the Bursary may be divided. Present value, £35 to each Bursar.

*Bursars*—<sup>1</sup>Samuel Macfie, 1888; James Lyle, 1889.

DUNDONALD BURSARIES (*Eight in Arts and Six in Theology*).—In 1672, William, Earl of Dundonald, founded seven Bursaries—four in Philosophy and three in Divinity. The Philosophy Bursaries are tenable for four years; the Divinity Bursaries for two years.

The Bursars in Philosophy receive £40 each per annum, and those in Divinity, £41 2s. 6d. The appointment is now vested in the Duke of Hamilton.

In 1858, the surplus funds of this foundation having greatly accumulated, an Act of Parliament was obtained, authorizing an increase in the number of Bursars, but providing that the total number of Bursars in Philosophy shall, at all times, bear to the number of Bursars in Divinity the proportion of four to three, as nearly as may be. The Bursaries are now fourteen in number—eight in Philosophy and six in Divinity.

*Bursars in Philosophy*—<sup>1</sup>Joseph Sillars, 1888; <sup>1</sup>James Walker, 1888; John A. Nicholls, 1889; John Shaw, 1890; Henry A. Williamson, 1890; John Struthers, 1891; George S. Adams, 1891; Archibald Hunter, 1891.

*Bursars in Divinity*—<sup>1</sup>Alexander Maclellan, 1890; <sup>1</sup>John M'Arthur, 1890; <sup>1</sup>John B. Mackenzie, M.A., 1891 (1890); Thomas Kearney, 1891; David Young, 1891.

ELDER BURSARIES.—With a view to the encouragement of merit shown by the sons of working men, Mrs. Elder has intimated her intention of giving annually to the most deserving student of the Science and Art Classes in connection with the Young Men's Christian Association, Govan Section, a Bursary of £25 per annum, to which will be added by the Department of Science and Art an equal sum, making £50 in all. The Bursaries will be tenable for two years.

Candidates must have taken the undermentioned classes in the Govan Science and Art Section:—Mathematics (2nd stage); Theoretical Mechanics (Elementary); Steam and the Steam Engine, or Naval Architecture (advanced stage).

<sup>1</sup> Vacant through lapse of time.

The competition by which the Bursar is to be selected will be in the above subjects, and will be conducted by the Department of Science and Art at the May examination. The fourth examination will be held in May, 1892.

Candidates must be employed in workshops on the Govan side of the Clyde from Glasgow to and including Renfrew, or must reside in the district. A Bursar will be required to enrol in and attend the following classes at the University during the first year of his attendance : (1) Natural Philosophy ; (2) Chemistry (lectures); (3) Mathematics ; (4) Naval Architecture and Marine Engineering. During the second year of attendance : (1) Mathematics ; (2) Civil Engineering and Mechanics (lectures); (2) Naval Architecture and Marine Engineering. These Bursaries are to be continued during Mrs. Elder's pleasure.

JAMES EWING ENTRANCE BURSARIES (*Arts*).—Four in number, founded in 1879, by the Merchants' House of Glasgow, in accordance with the Deed of Endowment of the late Mr. James Ewing of Strathleven. The Directors resolved to apply annually £80 of the income of his legacy of £10,000 for educating, training, and settling in business the sons of Glasgow merchants in entrance Bursaries of £20 each. The Bursaries are tenable for four years by Students giving regular attendance on classes in the Faculty of Arts. Open to first year's students. The appointments to the Bursaries will be made in accordance with the annual Bursary competition at the commencement of the session ; candidates to be qualified as above. Applications to be lodged with Wm. H. Hill, LL.D., Clerk of the Merchants' House, on or before 1st October, in each year.

*Bursars*—<sup>1</sup> Robert Lamond, 1888 ; <sup>2</sup> William Donald, 1889 ; William R. Gourlay, 1890 ; James N. Gray, 1891.

EXCHEQUER BURSARIES (*Arts and Theology*).—These Bursaries, six in number, were founded by King William III., in 1695. They are tenable for six years ; the first in Logic, the second in Moral Philosophy, the third in Natural Philosophy, and the last three in Divinity. In case of a vacancy by death or otherwise, a student of the same standing with the late Bursar is appointed for the remainder of the time. The Bursars in Philosophy receive £10 per annum each, and those in Divinity £13 6s. 8d.

*Bursars*—<sup>1</sup> Ewen M. Macgregor, 1891 (1886) ; John Fairley, 1890 (1887) (Divinity) ; Ernest S. Gunson, 1891 (1888) (Divinity) ; John Wilson, 1891 (1889) (Divinity) ; Andrew E. Wallace, 1890 (Nat. Phil.) ; Duncan M. Macrae, 1891 (Mor. Phil.)

JAMES FERGUSON BURSARIES (*Theology, Law, Medicine, or Department of Engineering Science*).—Two in number, founded in 1877,

<sup>1</sup> Vacant through lapse of time.

<sup>2</sup> Vacant by resignation—Bursar's course finished.

under provision of the Trust Disposition and Settlement of the late James Ferguson, Esq., of Wiston, and consisting of the annual proceeds of a sum of £3,600. The Bursaries are tenable for two years in any of the three Faculties of Divinity, Law, or Medicine, or in the Department of Engineering Science. The Bursaries are awarded for special proficiency in Arts studies, according to the following rotation, viz.:—In November, 1878, and thereafter, triennially, in Mental Philosophy, including English Literature; in November, 1879, and thereafter, triennially, in Mathematics; in November, 1880, and thereafter, triennially, in Classical Literature. The Examination is the same as that for honours in the corresponding department (with the addition in the case of the Department of Mental Philosophy of a paper on English Literature), at the annual Examination for Degrees in November. Candidates must have completed the course of attendance required for admission to examination in the corresponding department for the Degree of M.A. Each Bursar must pursue the course of study for such Degree in Divinity, Law, Medicine, or Engineering Science, as he may, with approval of the Senate, select. In the event of a successful candidate not having completed attendance on the Arts classes necessary to qualify for the Degree of M.A., he shall be at liberty, without forfeiting his right to the Bursary, to continue his studies in Arts for two years, in order that he may complete his qualifications for graduation; but no part of the Bursary shall become payable until he has selected and entered upon a course of study in one of the three Faculties above mentioned, viz.:—Divinity, Law, or Medicine, or in the Department of Engineering Science. While the Bursary is tenable for two years of such course, the Bursar must continue his attendance on classes beyond the two years, if this be necessary for graduation or for receiving the Certificate of Proficiency in Engineering Science. The Bursar shall not receive payment of any half-yearly Burse without such evidence as the Senate may require that he is faithfully pursuing the selected course, and shall not receive payment of the fourth half-yearly Burse until he has graduated or received the Certificate of Proficiency in Engineering. Unless a candidate comes up to at least the standard of Second Class Honours, the Senate shall not be bound to award the Bursary. There is a preference, *ceteris paribus*, to young men natives of the parishes of Lesmahagow or Muirkirk, or the province of Pictou, Nova Scotia, and also to young men of the name of Ferguson or Weir, or to descendants and relatives of the founder.

Candidates for the Bursary to be competed for in 1892 will be examined in Classical Literature, on *Saturday, 29th October, Monday, 31st October, and Tuesday, 1st November*, along with the examinations on these subjects for the Degree of M.A. Names to be given in to the Assistant Clerk (Matriculation Office) not later than 1st October.

*Bursars*—<sup>1</sup> John E. Black, M.A., 1890; Daniel Lamont, 1891.

<sup>1</sup> Vacant through lapse of time.

**FORFAR BURSARIES (*Arts*).**—Founded by the Countess of Forfar in 1737, and foundation remodelled by the Universities Commissioners, by ordinance of 31st May, 1862. There are now four Forfar Bursaries in the gift of the Senate: the holder of each to receive £30, if the funds allow. These Bursaries are open for competition to all students entering the first or second session of attendance in the Faculty of Arts, and are tenable for four years; subject, in each case, to the condition that the Bursar shall pass the examinations required of students proceeding to the Degree of M.A. In the event of a vacancy occurring otherwise than by lapse of time, a student of the same standing as the late Bursar may then be appointed for the remainder of the period, otherwise the Bursary continues vacant till the end of that period.

*Bursars*—<sup>1</sup>John G. Spens, 1891 (1888); Joseph Macnaughtan, 1889; Joseph F. M'Fadyen, 1890; John S. Thomson, 1891.

**FORREST BURSARIES (*Any Faculty*).**—Founded by Mr. William Forrest of Easter Meadowhead, Drumgelloch, and Meadowside, by Deed of Mortification, of date 6th March, 1858. The Trust was re-constituted in 1886, under a Scheme of the Educational Endowments Commission. The Bursaries are five in number, each of the annual value of £22, and tenable at the University of Glasgow, for such number of years, not exceeding five, as the Governors may determine. The Bursaries are awarded by competitive examination among young men who require aid in obtaining a University education, and who have been pupils in public or State-aided schools within the parishes of New Monkland, Slamannan, and Shotts, or who are natives of said parishes. Bursars cannot hold another Bursary, must prosecute a course for some degree, and attend at least two classes each session.

**Governors**—The Provost of Airdrie, the ministers of the parishes of New Monkland, Airdrie, and Clarkston, one representative from each of the School Boards of Airdrie and Clarkston, and one from the School Boards of Slamannan and Shotts alternately, and one appointed by the Sheriff of Lanarkshire. Secretary and factor, Mr. James Chapman, Town-clerk, Airdrie. (Three vacancies.)

**FOUNDATION BURSARIES (*Arts*).**—These Bursaries, four in number, were founded by James VI., in 1577, for students in Languages and Philosophy. The value of each is £10 per annum. The right of presentation belongs to the Senate. By ordinance of the Universities Commissioners, of date 7th June, 1862, these Bursaries are put upon the same footing as the Forfar Bursaries (for which see above).

*Bursars*—<sup>1</sup>Samuel Scott, 1891 (1888); William S. Templeton, 1889; Robert Rule, 1890; William Watson, 1891.

**FULLARTON OF OVERTON BURSARIES (*Arts*).**—By Deed of Mortification and Constitution, dated 22d December, 1877, the Executors

<sup>1</sup> Vacant through lapse of time.

of the late John Fullarton, Esq., of Overton, West Kilbride, Ayrshire, in pursuance of his Trust Disposition and Settlement and Codicils, assigned to the Principal and Professors of Glasgow University, as Patrons, the residue of his estate, amounting to £2,604 17s. 7d., for the purpose of founding five Bursaries, more or less, each of the annual value of at least £10, but not exceeding £30. The Bursaries are tenable for two years by students in Arts under 25 years of age, belonging to or resident in the district of Cunningham, in Ayrshire, children of parents whose means and social position are not above those of tradesmen, small farmers, or shopkeepers, or others who may be struggling to secure their better education, and are by themselves, or with such assistance as they may be able to get from their parents or relations, unable to provide for the expenses of a University education. The Bursaries are awarded by competitive examination in Latin, Elementary Mathematics, and English; but no candidate is eligible who has attended any University for more than one session. A Bursary may be divided between two candidates of equal or nearly equal merit, but as between a candidate who has not previously attended any University and a candidate who has so attended, the former is preferred. A Bursar may attend each session one or more of the classes in the Faculty of Arts, the selection of classes being left to his own option. The estate is in the meantime burdened with annuities amounting to the sum of £20 sterling. Any accumulations through vacancies are added to the capital sum. Candidates are required to produce evidence of age. (Two vacancies, each £20 per annum.)

*Bursars*—<sup>1</sup>John Hall, 1890; Robert Muir, 1891; David Blair, 1891; Mungo M. Fairgrieve, 1891.

GENERAL COUNCIL BURSARIES (*Arts*).—Under a scheme originated by Mr. David Hannay, clerk to the General Council, a sum of about £500 (Fund No. I.) was raised by subscription among the members of Council for the foundation of Bursaries to be held for three years, and open to competition to first and second year's students in Arts. This fund has now been exhausted. In addition, a sum of £2,300 (Fund No. II.) has been raised to form the nucleus of a permanent General Council Bursaries Fund. Of this sum £1,000 is due to the liberality of the late Rev. Wm. Park, D.D., minister of Airth, to be applied in memory of his brother, the Rev. John Park, D.D., minister of Cadder. With Dr. Park's consent, this sum was appropriated to two Park General Council Bursaries of £20 a-year, open to second year's students, and tenable for two years. (Two vacancies.)

*Bursars*—<sup>1</sup>Charles E. Nicol, 1890 (1889); John J. H. Johnston, 1890; William Gow, 1891; <sup>1</sup>J. C. McClure, 1890 (Park); Robert S. Macmorran 1891 (Park).

JOHN GIBSON BURSARIES (*Any Faculty*).—Founded in 1877 by Vacant through lapse of time.

Miss Jane Gibson, in memory of her father, John Gibson, of Oakband and Johnstone, merchant in Glasgow. The Bursaries, which may be given to one student, or at most two, consist of the annual proceeds of £1,000. The administration is vested in trustees, who have great discretionary powers as to the conditions on which the Bursaries may be held. Their subsisting resolution is to award the Bursary to a Medical student entering on the second year of his course, to be retained for three years, with a reserved power to the Trustees to continue the same for a fourth year to any specially deserving Bursar. When a vacancy occurs applications are to be made to James Graham, LL.D., writer, 198 West George Street, Glasgow, who will furnish forms of application.

*Bursars*—<sup>1</sup>John J. Boyd, 1889; Robert W. Forrest, 1890.

GILCHRIST BURSARY (*Arts*).—Founded by Mr. John Gilchrist, in 1700, for a student in Philosophy, being the son of a tradesman freeman in the Burgh of Glasgow. Preference to names Gilchrist, Bryce, and Boyd. Value, £8 per annum. Appointment by the Trades' House.

*Bursar*—John P. Granger, 1890.

GILHAGIE BURSARY (*Theology*).—Founded in 1753 by Agnes Gilhagie, widow of William Somerville, merchant in Glasgow, for a student in Divinity. Tenable for four years. Value, £6 6s. per annum. Appointment by the Magistrates, Town Council, and Ministers of Glasgow.

*Bursar*—<sup>2</sup>William Vallance, 1889.

GLASGOW CITY EDUCATIONAL ENDOWMENTS BURSARIES (*Arts*).—Under scheme 10, section 31, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council, on 19th May, 1885, the Governors of the Glasgow City Endowments Board are instructed to apply the annual sum of £500 in establishing Bursaries at the University of Glasgow. Each Bursary is of the yearly value of £25. One half of these Bursaries are to be awarded among the Queen's Scholars at Training Colleges who have attended two years at the University of Glasgow, on the report of the Board of Examiners appointed by the Scotch Education Department. Every Queen's Scholar obtaining such Bursary shall be taken bound to complete his curriculum for a degree in Arts or Science during the time he holds the Bursary, and thereafter to submit himself for examination for such degree. The other half of the Bursaries are to be awarded by competitive examination among those who have attended public or State-aided schools in Glasgow, and who require aid in obtaining a University education. They are tenable for four years. Forms of application may be had from the Secretary of the Board—Dr. F. L. Robertson, Hutchesons' Buildings, Ingram

<sup>1</sup> Vacant through lapse of time.

<sup>2</sup> Bursar's course finished.

Street—and should be lodged with him on or before the 1st day of October in each year. The names of candidates who are found to possess the prescribed qualifications will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for the first year. The Bursaries will be awarded to those candidates highest in order of merit who fail to win a Bursary at the general competition. In 1892 five Queen's Scholars and two other Bursars will be appointed.

*Bursars*—<sup>1</sup>Ebenezer Scott, 1888; <sup>1</sup>William Martin, 1888; William S. Macmillan, 1889; Robert Wilson, 1889; Campbell M. Macleroy, 1889; Archibald McCallum, 1890; Allan M. Nelson, 1890; James Pollock, 1890; Hyam Goodman, 1891; Adam Muir, 1891.

*Queen's Scholars*—<sup>1</sup>John S. Robertson, 1890; <sup>1</sup>John S. Hastie, 1890; <sup>1</sup>Andrew Hunter, 1890; <sup>1</sup>Andrew Watt, 1890; <sup>1</sup>Thomas Nisbet, 1890; James Rodger, 1891; James Lyle, 1891; Colin M. Morrison, 1891; John Struthers, 1891; John Sinclair, 1891.

GEORGE GRANT BURSARY (*Arts*).—Founded in 1885 by Miss Susan Smith Grant, of West Thorn, Lauder Road, Edinburgh, in memory of her father, George Grant, Esq., cotton spinner, Mile-end, Glasgow. Miss Grant assigned and conveyed to the Senate the sum of £1,200 in trust, to be applied in all time coming for providing one Bursary in connection with the Faculty of Arts. Miss Grant retains the right of nomination to the Bursary during her lifetime, but has provided that in the event of her failing or declining to nominate, and in all cases after her death, the Bursar shall be determined by competitive examination of first year students who are entering on a three or four years' course of study, and the Bursary shall be tenable for three or four years accordingly. On the Bursary falling vacant otherwise than by lapse of time, an appointment may be made for the remainder of the term, or for the full period after competition. The Bursar is required to graduate in Arts, and before payment of the second moiety of the last year's Bursary he must produce evidence that he has taken his degree, or that he has obtained all the certificates necessary for graduation. Any accumulations from vacancies or otherwise are to be added to the capital sum.

*Bursar*—David Fergusson, 1889.

GEORGE GRANT, JUNIOR, BURSARY (*Arts*).—Founded in 1885 by Mrs. Agnes Grant or Mair, wife of the Rev. John Mair, D.D., minister of the parish of South Dean, Roxburghshire, in memory of her brother, the late George Grant, junior, cotton manufacturer, Mile-end, Glasgow. Mrs. Mair, with the advice and consent of her husband as her curator and administrator-in-law, and for his interest in the premises, assigned and disposed to the Senate the sum of £1,200 in trust, to be applied by them in all time coming for providing one Bursary in connection with the Faculty of Arts. Mrs.

<sup>1</sup>Vacant through lapse of time.

Mair reserves to herself during her lifetime, and thereafter to her husband, should he survive her, the right to nominate to the Bursary, and to fix the classes to be attended by the Bursar and the period of his tenure. After the death of the survivor the period of tenure of the Bursary is to be four years, and the Bursar is to be selected by competitive examination of first year's students. In the event of a vacancy occurring otherwise than by lapse of time an appointment may be made for the remainder of the term, or for the full period after competition. The Bursar shall require to graduate in Arts, and before payment of the second moiety of the last year's Bursary shall produce evidence that he has taken the degree, or that he has obtained all the certificates necessary for graduation. Any accumulations through vacancies or otherwise to be added to the capital sum.

*Bursar*—Peter N. Grant, 1885.

**HAMILTON BURSARIES (*Arts and Theology*).**—These Bursaries, now six in number, were founded by Anne, Duchess of Hamilton, in 1694. The conditions of tenure are exactly the same as in the case of the Exchequer Bursaries; see page 188. The Bursars in Philosophy receive £20, and those in Divinity £25, per annum each. The right of presentation is vested in the Duke of Hamilton. (Regulated by Act of Parliament, 1758.)

*Bursars*—<sup>1</sup> Angus M'Donald, 1886; Donald Macdonald, 1891 (1887) (Divinity); James P. Baird, 1888 (Divinity); John C. M'Naught, 1889 (Divinity); Charles Macdonald, 1890 (Nat. Phil.); William G. Cameron, 1891 (Mor. Phil.).

**HAMILTON EDUCATIONAL TRUST BURSARIES (*Arts*).**—Under scheme 39, section 28, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council on 13th May, 1887, the Governors of Hamilton Educational Trust are instructed to apply a sum, not less than £50 yearly, in providing University or Technical College Bursaries. These Bursaries, each of the yearly value of £15, and tenable for three years, are open to be competed for by pupils attending public or State-aided schools in the burgh and parish of Hamilton, who require aid in obtaining a University or higher education. Applications to be lodged with Patrick Keith, Esq., Hamilton, Clerk of the Trust, on or before the first day of October.

*Bursars*—David M. Yule, 1890; R. A. Gray, 1891.

**HANNAY BURSARIES (*Arts*).**—Three in number, founded in 1865 by the late Mr. Anthony Hannay, merchant, Glasgow, in memory of his deceased wife. To be awarded to young men, not under fourteen, and not above nineteen years of age, who are about to commence their studies in the Arts classes, with a view to the Holy Ministry in connection with any of the Evangelical Religious Denominations in Scotland, and who shall engage to attend during each of the first

<sup>1</sup> Vacant through lapse of time.

three years of the curriculum not fewer than two classes. The principal qualifications of those to be selected are good moral character, promising talent, a fair preliminary education, and a want or deficiency in the necessary pecuniary means for pursuing a University education. Candidates for these Bursaries are required to submit themselves to the annual Bursary Examination at the commencement of the Winter Session of the University of Glasgow, or such other examination as the trustees may appoint; but the result of said examination shall only be taken as one of the tests in judging of the merits of the applicants. The Bursaries to be bestowed for three years—one to be given each year. Value, about £15 per annum each. The appointment is vested in the Principal, the Dean of the Faculty of Procurators in Glasgow, and the President of the Faculty of Physicians and Surgeons in Glasgow. Applications to be made to Mr. Robert Brodie, 77 St. Vincent Street, and also to the Assistant Clerk (Matriculation Office) not later than 1st October.

*Bursars*—<sup>1</sup>George S. Yuille, 1889; William A. Morton, 1890; Arthur S. Middleton, 1891.

HASTIE BURSARIES (*One in Arts and Two in Theology*).—In 1772 the Rev. Mr. Hastie founded a Bursary for a student in this University. By an addition since made to the foundation, the number of Bursaries is increased to three, two in Divinity and one in Philosophy.

By ordinance of the Universities Commissioners, 31st May, 1862, there are three Bursaries on this foundation, each £25 in value—one in Arts, tenable on the same conditions as the Forfar; the other two in Theology, open to competition to all Masters of Arts of any of the Scottish Universities entering upon the first or second year in Divinity, and tenable for three years.

*Bursar in Arts*—William G. Skinner, 1889.

*Bursar in Theology*—<sup>1</sup>William Howie, M.A., 1889; John McGilchrist, M.A., 1891.

HOWISON BURSARY (*Arts*).—Founded in 1613 by the Rev. John Howison, of Cambuslang. The Bursar to be a qualified scholar of honest name and good report, son of a craftsman of Glasgow, whom failing, any other qualified scholar selected by the Patrons. Annual value, £9. Appointment by the Trades' House. “The Bursar to pass his course within the College.”

*Bursar*—Archibald Stuart, 1890.

HUTCHESONS' EDUCATIONAL TRUST BURSARIES.—Under Scheme 9, Section 40, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council, on 5th March, 1885, the Governors of Hutchesons' Educational Trust are instructed to apply an annual sum of not less than £400 in establishing University or Technical College Bursaries. These Bursaries, each of the yearly

<sup>1</sup>Vacant through lapse of time.

value of £20, and tenable for four years, are open to be "competed for by boys who have attended not less than two sessions in the Secondary Department of Hutchesons' Grammar School." Forms of application may be had from the Secretary of the Trust—Dr. F. L. Robertson, Hutchesons' Buildings, Ingram Street—and should be lodged with him on or before the first day of October in each year. The names of candidates who are found to possess the prescribed qualification will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for the first year. The Bursaries will be awarded to those candidates highest in the order of merit who fail to win a Bursary at the general competition. In 1892 five Bursars will be appointed.

*Bursars*—<sup>1</sup> Benjamin H. Dodd, 1888 ; <sup>1</sup> Walter S. Findlay, 1888 ; <sup>1</sup> George Kerr, 1888 ; <sup>1</sup> Robert G. Nisbet, 1888 ; <sup>1</sup> Charles W. Thomson, 1888 ; Malcolm M'Lucas, 1889 ; John M. Forsyth, 1889 ; John M. Hodge, 1889 ; John D. Louttit, 1889 ; William Yule, 1890 ; John Cumming, 1890 ; James L. Forrest, 1890 ; John S. Leishman, 1890 ; Joseph Shillinglaw, 1890 ; James Weir, 1891 ; Robert O. Whyte, 1891 ; Lewis M'Lachlan, 1891 ; James G. Green, 1891 ; Richard N. Pattison, 1891.

**HYNDFORD BURSARY (*Arts*)**.—Founded in 1617 by Mr. Michael Wilson, for a student in Philosophy. Tenable for four years. Value, £6 13s. 4d. per annum. The right of presentation belongs to the representative of Sir James Carmichael, who is at present Sir W. C. Anstruther, Bart.

*Bursar*—<sup>1</sup> Gilchrist G. Alexander, 1888.

**JOHN FERGUSON JAFFREY BURSARY IN MENTAL PHILOSOPHY (*Arts*)**.—This Bursary, founded in 1877, is of the annual value of £34, "and shall be awarded to a student on entering the third session of his attendance, *i.e.*, a student who has attended at any of the Scottish Universities during each of the two previous sessions at least two classes in the Faculty of Arts other than the classes of Logic, Moral Philosophy, and English Literature, or who, having passed the Preliminary Examination in Humanity and Greek, has attended for one session the higher classes in those subjects, and who intends to prosecute a full course in the Department of Mental Philosophy, including English Literature." Candidates are examined in such subjects in English Literature and Logic as may be fixed by the Senate. The examiners are the Professors of English Literature, Logic, and Moral Philosophy. The Bursary "shall, as a rule, be tenable for two years, but on condition that the Bursar, during the two years of his tenure, shall complete his attendance on the classes in the Department of Mental Philosophy (including English Literature, unless he shall have attended that class during one of his previous sessions), and shall also attend one at

<sup>1</sup> Vacant through lapse of time.

least of the advanced classes taught by the Professors of Logic and Moral Philosophy, and shall pass the departmental examination in Mental Philosophy for degrees." The subjects of examination are—Professor Veitch's *Institutes of Logic*, Part I. (Large print only); Descartes (English Translation of 1879 or subsequent edition), Introduction, sections I., II., III.; *Discourse on Method*; *Meditations*, I. and II.; Shaw's *English Literature* (Murray's Student's Manual) Chaps. IV., V., VI., VII., XI.; Shakespeare's *Julius Caesar*, as edited by Beeching (Longman's Falcon Series); Zeller's *Socrates and the Socratic Schools* (translated by Reichel), pp. 1-200.

*Bursar*—William P. Hawks, 1891.

MALCOLM KERR BURSARIES (*Arts--Nat. Phil.; and Medicine--Chem.*).—Two in number, founded in 1874, and consisting each of half the free annual proceeds of a sum of £1,000, bequeathed by the late Mr. Malcolm Kerr, stationer in Glasgow. One of the Bursaries is in Natural Philosophy, the other in Chemistry. The Bursaries are given on examination, and are tenable for three years, provided the Bursars continue for so long to prosecute in the University Laboratories, to the satisfaction of the Senate, the study of Natural Philosophy and Chemistry respectively. The subjects of examination in Natural Philosophy are the same as those for M.A., with Second Class Honours; and in Chemistry, the same as those for M.A., with Honours in Natural Science. Present value, £18 to each Bursar. The Bursary in Chemistry is vacant.

*Bursar in Natural Philosophy*—James H. Gray, B.Sc., 1890.

THE KINTYRE (KER) BURSARY (*Any Faculty*).—This Bursary, founded in 1862 by Robert Ker, Esq., of Auchinraith, merchant in Glasgow, originated in the Founder's desire "to increase the opportunities of acquiring knowledge to the natives of Kintyre."

The Office-bearers of the Kintyre Club were appointed Patrons. By the Deed of Mortification, the free proceeds of a sum of £500 sterling—about £20 sterling—were appointed to be paid to a student to be nominated by them, and who should enjoy the said Bursary for the term of three years while prosecuting his studies at the Glasgow University, with power to the Patrons to determine, in every case, whether the Bursary should be granted for a longer or shorter period than three years, but in no instance is it to be granted for a longer period than four years to the same student. No restriction is placed upon the student as to his profession or calling. Applications to be lodged with the Honorary Secretary of the Kintyre Club, R. Harvey Pirie, LL.B., 173 St. Vincent Street, Glasgow.

*Bursar*—Malcolm M'Kinnon, 1889.

THE KINTYRE (ALEXANDER LOVE) BURSARY (*Any Faculty*).—This Bursary was founded in 1890 by the family of the late Alexander Love of Campbeltown. It consists of the free proceeds of a sum of £300 sterling—about £11—and is administered by the Office-bearers

of the Kintyre Club. The Bursar must be a native or the son of a native of Kintyre, or actually resident there, and entering upon his first session at the University. His circumstances must be such as to render aid important. The period of tenure is not to exceed four years. When a vacancy occurs application should be made to the Hon. Sec. of the Kintyre Club, R. Harvey Pirie, LL.B., 173 St. Vincent Street, Glasgow.

*Bursar*—James Moffat, 1891.

LAING BURSARY OR BURSARIES (*Arts*).—The late Alexander Laing, LL.D., some time Professor of Mathematics in Anderson's College, Glasgow, who died in 1882, bequeathed to trustees the sum of £500 to found one or two Bursaries in the Faculty of Arts. The trustees by a deed, dated 26th July, 1883, conveyed to the Senate the sum of £500 of the preference 4 per cent. stock of the Glasgow and South-Western Railway Company, under certain conditions and regulations. The foundation is for providing, in the option of the Senate, one Bursary of £20, or two of £10 each. The Bursary is open to competition to all students entering on their first session in the Faculty of Arts (a preference being given, *cæteris paribus*, to natives of Brechin). The period of tenure is three years. Should the Bursary become vacant otherwise than by lapse of time, the income of the fund during the vacancy is to be added to capital.

*Bursar*—Andrew Robertson, 1890.

LAMB BURSARY (*Arts or Theology*).—Founded in 1863, by the late Rev. Dr. William Lamb, minister of Carmichael, and appropriated to a student in Arts or Divinity. Bursar appointed by the Minister and Kirk Session of Carmichael, and a preference given to any applicant in the parish of Carmichael or Pettinain, whom failing one may be chosen from any other parish in the Presbytery of Lanark. Value about £12 per annum.

*Bursar*—John L. Froid, 1891.

LEADBETTER BURSARY (*Arts*).—Founded in 1855 by Mr. John Leadbetter, merchant, Glasgow. It is £9 in value and tenable for four years; the Bursar attending Greek and Latin the first year; Logic and Mathematics the second year; Moral Philosophy and Mathematics the third year; and Natural Philosophy the fourth year. Preference to boys who have attended the five years' Classical Course of the High School of Glasgow. Patrons—The Lord Provost and Magistrates.

*Bursar*—William C. Mitchell, 1891.

LEIGHTON BURSARIES (*Arts and Theology*).—Robert Leighton, Archbishop of Glasgow, founded in 1681 two Bursaries, at present of the value of £9 per annum each. They are tenable for four years in Philosophy, and two or three years in Divinity. On a

vacancy, two students are nominated by the Town Council, and examined by the Senate, who prefer the best scholar.

*Bursars*—John L. C. Tulloch, 1891; Thomas Carruthers, 1891.

**JOHN LEYDEN BURSARY (*Arts*)**.—Founded in 1879 by the Glasgow Border Counties Association in memory of John Leyden, poet and scholar. The Fund consists of the sum of £429 3s. 8d. raised by subscription. The Bursary is open to free competition under the same regulations as the competition Bursaries in the University. Tenable for three years. The holder to pass through the Arts course, and at the termination thereof to take the Degree of M.A.

*Bursar*—John Sinclair, 1890.

**OLD LIBRARY BURSARY (*Theology, Law, or Medicine*)**.—Founded by Mr. Hutcheson, of Lambhill, in 1641. Tenable for four years. Value, £11 2s.  $2\frac{3}{4}$ d. per annum. The Bursar must be M.A. Preference to a son of a burgess, particularly one of the name Hutcheson or Herbertson. The Patrons are the Magistrates and Town Council of Glasgow.

*Bursar*—Edward J. Primrose, 1891.

**JAMES LOCHHEAD BURSARY (*Arts*)**.—Founded in 1886 in terms of the Trust Disposition and Settlement of Mrs. Robina Mitchell, who bequeathed £500 for that purpose, in memory of her brother, who died in Ohio. A preference is given to students of the name of Lochhead, whose parents are members of the Established Church of Scotland, whom failing to students whose parents are members of the said Church. The Bursary is tenable for three years in the Faculty of Arts.

*Bursar*—Peter D. Strachan, 1890.

**LOCHHEAD AND MITCHELL BURSARIES (*Arts*)**.—Two in number and of equal value, founded in 1886, in terms of the Trust Disposition and Settlement of Mrs. Robina Mitchell, who bequeathed £2,000 (free of legacy duty) for that purpose. A preference is given to students of the name of Mitchell or Lochhead, whose parents are members of the Established Church of Scotland, whom failing to students whose parents are members of the said Church. They are tenable for four years in the Faculty of Arts.

*Bursar*—<sup>1</sup>Alexander Taylor, 1888; Ebenezer Mitchell, 1891.

**LOGAN BURSARIES (*One in Theology and One in Medicine*)**.—Two in number, one in Divinity and one in Medicine, founded in 1863, by Mrs. Logan, widow of Mr. William Logan, tinsmith in Glasgow. The Bursary in the Faculty of Divinity is tenable for three years, and the one in the Faculty of Medicine for four years. A preference, *ceteris paribus*, is given to the names Logan and Johnstone.

<sup>1</sup> Vacant through lapse of time.

The value of each is £16 per annum. Appointment by the Senate.

*Bursar in Theology*—Thomas Cook, 1890.

*Bursar in Medicine*—Frederick H. Waddy, 1889.

LORIMER BURSARIES (*Four in Theology, Four in Medicine, and Eight in Arts*).—By Trust Disposition and Settlement, of date 17th October, 1872, the late Mr. John Lorimer, merchant in Glasgow, directed his Trustees to make over to the Principal and Professors of the University of Glasgow, the residue of his estate, amounting to the sum of £8,594 5s. 5½d., the annual proceeds of £5,000 thereof to be applied in payment of Bursaries of an amount not exceeding £50 each, and tenable for three years. One Bursary at least is to be payable to a matriculated student of each of the following subjects :—1, Theology ; 2, Medicine ; 3, Philosophy ; 4, Mathematics ; and the proceeds of the remainder of such residue are to be applied in payment of smaller Bursaries tenable by students of the above-mentioned subjects.

The following regulations have been adopted by the Senate :—

1. The Bursaries shall be sixteen in number—namely, eight of the annual value of £25, and eight of the annual value of £20, and shall be tenable for three years.

2. Four Bursaries—viz., two at £25, and two at £20 shall be held by Students of Theology, and shall be open to competition to students entering the Divinity Hall. The second moiety of the third year's Burse shall not be paid until the Bursar shall have passed the examination for the degree of B.D.

3. Four Bursaries—viz., two at £25, and two at £20, shall be held by Students of Medicine, and shall be open to competition to students who have attended the first session of their professional study in the University of Glasgow, and who have passed in all the seven subjects of the examination in General Education for M.B., or who possess such a degree in Arts as is recognized by the University as exempting from an examination in General Education. The subjects of examination, which shall be prescribed by the Medical Faculty, are Elementary Anatomy, Elementary Chemistry, and Botany. The second moiety of the third year's Burse shall not be paid until the Bursar shall have passed his Final Professional Examination for the degree of M.B.

4. Four Bursaries—viz., two at £25, and two at £20, shall be open for competition to students entering on their third session of attendance, *i.e.*, students who have attended at any of the Scottish Universities during each of the two previous sessions at least two classes in the Faculty of Arts other than the classes of Logic, Moral Philosophy, and English Literature, or who, having passed the Preliminary Examination in Humanity and Greek, have attended for one session the higher classes in those subjects, and who intend

to prosecute a full course in the department of Mental Philosophy, including English Literature. Candidates shall be examined in such subjects in English Literature and Logic as may be fixed by the Senate. The Examiners shall be the Professors of English Literature, Logic, and Moral Philosophy. Each Bursar must attend two classes in the Faculty of Arts. Immediately on his appointment, he must enter one or more of the classes of English Literature, Logic, and Moral Philosophy, and in the course of his tenure of his Bursary must attend, besides the above classes, one or more of the higher classes in connection with the classes of Logic and Moral Philosophy. The second moiety of the third year's Burse shall not be paid until the Bursar shall have obtained a Certificate in the Mental Philosophy Department for a Degree in Arts.

5. Four Bursaries—viz., two at £25, and two at £20, shall be open for competition to students entering on their third session of attendance, *i.e.*, students who have attended at any of the Scottish Universities during each of the two previous sessions at least two classes in the Faculty of Arts other than the classes of Mathematics and Natural Philosophy, or who having passed the Preliminary Examination in Humanity and Greek, have attended for one session the higher classes in those subjects. Candidates shall be examined in such subjects in Mathematics as may be fixed by the Senate. The Examiners shall be the Professors of Mathematics and Natural Philosophy. Each Bursar must attend two classes in the Faculty of Arts. Immediately on his appointment he must enter the class of Mathematics, and prosecute the course of study required for obtaining a certificate in the Mathematical Department for a Degree in Arts. The second moiety of the third year's Burse shall not be paid until the Bursar shall have obtained this Certificate.

In session 1892-93 four of the above £25 Bursaries will be open to competition—viz., one in Theology, one in Medicine, one in Philosophy, and one in Mathematics. The Bursary in Theology will be decided by the results in the general competition for Bursaries in Theology. The competition for the Bursary in Medicine will be held along with the examinations for the Rainy Bursary. For the Bursary in Philosophy the subjects of examination will be those prescribed for the John Ferguson Jaffrey Bursary (see p. 196), and the examination will take place along with the November examinations for M.A. in English and Logic. The examination for the Bursary in Mathematics will take place along with the preliminary examinations in Mathematics for M.A., but may embrace higher papers.

*Bursars in Theology*—<sup>1</sup>David H. Gillan, M.A., 1889; Stevenson M'Nab, M.A., 1890; William B. M'Nab, M.A., 1890; Adam Nelson, M.A., 1891.

<sup>1</sup> Vacant through lapse of time.

*Bursars in Medicine*—<sup>1</sup> John Morton, 1889; William S. Cook, 1890; John F. R. Gairdner, 1890; John J. Urwin, 1890; Alexander MacLennan, 1891.

*Bursars in Arts*—<sup>1</sup> David Graham (Phil.), 1889; <sup>1</sup> Walter Stewart (Math.), 1889; John M. Connor (Phil.), 1890; Gavin L. Pagan (Phil.), 1890; Walter S. Findlay (Math.), 1890; Edward H. Wallace (Math.), 1890; John M. Forsyth (Phil.), 1891; William C. Henderson (Math.), 1891.

**LUMSDEN BURSARY (Theology).**—This Bursary was founded in 1850, by Mr. James Lumsden, stationer, Glasgow. Value £15. It is given to a Divinity student of the first year, and may be held for four years. There is a preference to sons of members, or of deceased members of the Stationers' Company of Glasgow. The Patrons, viz., the Principal, the Professors of Divinity, Hebrew, and Church History, and the President of the Stationers' Company—have resolved that when no candidate with a preferential claim applies for the Bursary it shall be awarded in accordance with the results of the competition for Bursaries in Theology.

*Bursar*—David Bayne, M.A., 1890.

**LUSK BURSARY (Arts).**—Founded in 1876, in accordance with holograph settlement executed by Mr. Robert Lusk, merchant in Greenock, who bequeathed the sum of £1,000, reduced by legacy duty to £900, for “a Bursary in connection with the Glasgow University, to be given to the most successful student attending the preparatory course of studies in said University who may intend to follow out the ministry in connection with any of the Presbyterian bodies in Scotland,” “and who may, on public examination or competition, be found to be best qualified and most deserving.” The competition is open to first or second year's students in Arts. Tenable for three years, but may be continued for an additional year. Present value £33 per annum.

*Bursar*—John Ruggan, 1890.

**MACARTHUR BURSARY (Medicine).**—Founded in 1881 by Miss Jean Macarthur, in memory of her uncle, John Macarthur, Doctor of Medicine in Glasgow. The Bursary consists of the annual proceeds of £500. The administration is vested in a Committee appointed annually by the Faculty of Physicians and Surgeons of Glasgow. The Bursary must be held by a student prosecuting the study of Medicine in the University of Glasgow. Under the rules laid down by the Committee, applicants must have completed two winter sessions of medical study. Preference will be given to applicants who have taken one or more First Class Certificates in the Medical Classes. The Bursary is tenable for two years.

Application to be made prior to 15th April to Mr. Alexander

<sup>1</sup> Vacant through lapse of time.

Duncan, Faculty Hall, 242 St. Vincent Street, Glasgow, who will furnish forms of application.

*Bursar*—Johnstone Brown, 1891.

M'CRIE BURSARIES (*Arts*).—These Bursaries were founded by the Rev. James M'Crie, D.D., of Dangart, Senior Minister of the U.P. Congregation of Old Meldrum, in the County of Aberdeen. They are of the annual value of £25, tenable for four years, provided the holder passes a prescribed examination at the commencement of each session and complies with the other conditions mentioned in the Deed of Foundation. The Bursary fund consists of certain lands in the parish of Colmonell and other heritable and moveable property mortgaged for the purpose and vested in the Magistrates and Town Council of Ayr. The candidates must have been born in the parishes of Ballantrae, Colmonell, Barr, Girvan, Ayr, Old Meldrum, Tarves, Daviot or Bourtie, or in the City of Aberdeen, or in the Town of Ayr. The students must also be the sons either of mechanics, or of cottars, or of farmers, not paying more than £100 of yearly rent, or of ministers not having more than £130 of yearly income, without respect to religious sect or denomination. Candidates of the names of M'Crie, Forsyth, M'Cracken, or Spark, are to have a preference if otherwise deserving. The Bursaries may be held along with other Bursaries. One of the Bursaries on this foundation will be competed for in October next, and the examination will be held in Ayr. Candidates will be examined on the following subjects:—Classics: Latin, Greek. Mathematics: Arithmetic, Algebra, up to and including simple equations, Euclid, Books I. to III. English: Composition, Geography, and History of Scotland. Candidates must send their names and addresses to A. G. Young, Esq., Town Clerk, Ayr, not later than 1st October, 1892.

*Bursar*—John Paton, 1888; David H. Crawford, 1890.

JAMES MELVILLE M'CULLOCH BURSARY (*Arts*).—Founded in 1885 in memory of the late Rev. James Melville M'Culloch, D.D., minister of the West Parish, Greenock. It consists of the free annual income of about £400. It is open to competition to students of the first year in the Faculty of Arts, who shall have been educated for not less than three years at any school or schools in Greenock. Tenable for four years, the Bursar attending the qualifying course for the Degree in Arts. The second moiety of the fourth year's Burse shall not be paid until the Bursar shall have passed all the examinations required for the Degree of Master of Arts. In the event of a vacancy occurring otherwise than by lapse of time, the Senate may appoint a student of the same standing qualified in like manner, or may arrange a new competition.

*Bursar*—Malcolm Dunlop, 1889.

Vacant through lapse of time.

**MACDONALD BURSARIES (*Arts, Law, or Medicine*).**—Two in number, founded in 1882, in terms of the Trust Disposition and Settlement of Mr. Alexander Macdonald, M.P., who bequeathed to the University £1,000 for the purpose of assisting students in a course of purely secular education. The Bursaries are equal in value and tenable for four years in Arts, Law, or Medicine. Only miners under the age of twenty-one years, who have worked underground in any part of the United Kingdom, are eligible as candidates. The Bursaries are awarded in accordance with the results of an examination in general knowledge, particularly in writing, arithmetic, geography, grammar, and history. (One vacancy.)

*Bursar*—George L. Wilson, 1889.

**JOHN AND ISABELLA MACDOUGALL BURSARIES (*Arts*).**—Founded in 1884, under the Trust Disposition and Deed of Settlement of Miss Isabella Macdougall, Perth. Miss Macdougall directed her Trustees to devote the residue of her means and estate to the foundation and endowment of one or more Bursaries, payable to students born in the county or city of Perth, attending the classes in the Faculty of Arts, in the Universities of Edinburgh, Glasgow, and St. Andrews. The Bursaries are of the annual value of about £33, and are tenable for a period not exceeding three years. The Trustees are the Patrons. The candidates, who may be of any religious denomination, must undergo an examination by examiners appointed by the trustees. The Bursaries are open to students who are either (1) about to enter on their first session, and who shall pass the Preliminary Examination in Arts, or (2) who have already attended the junior classes for one session. A vacancy occurring otherwise than by lapse of time may be filled up by the appointment, after examination, of a student of equal standing with the retiring Bursar. It is not competent for any person to hold any of these Bursaries along with any other Bursary or appointment yielding to him an annual income of fifty pounds or upwards. The Trustees appointed were the following ministers in Perth, viz.:—The Rev. Wm. G. H. Carmichael, East Church Parish; the Rev. Archd. Fleming, St. Paul's Church Parish; the Rev. Robert Milne, West Church Parish; the Rev. William Stevenson, Middle Church Parish; and their successors in office for the time being, and Mr. Wm. Cochrane Young, solicitor in Perth. Candidates are requested to send in their names and addresses to Mr. Young, 9 St. John Street, Perth, on or before 1st September. (One vacancy.)

*Bursars*—<sup>1</sup>George A. Stalker, 1889; <sup>1</sup>Charles D. M. Ross, 1889; William Gow, 1890; Thomas Scott, 1891; James M. Templeman, 1891.

**MALCOLM M'EWEN BURSARY (*Arts or Science*).**—Mr. William M'Ewen, tobacco manufacturer, Glasgow, who died on 16th Decem-

<sup>1</sup> Vacant through lapse of time.

ber, 1878, by his Trust Disposition and Settlement, dated 28th November, 1878, directed his trustees, Mr. James Boyd, writer, Glasgow, and others, to devote a sum of £500 to the foundation of a Bursary in the University of Glasgow, to be called the "Malcolm M'Ewen Bursary," in memory of his brother, Mr. Malcolm M'Ewen, who died on 16th January, 1878. The Bursary was founded in 1884. After consultation with the Senate, the Trustees resolved that the regulations for the Bursary should be as follows:—The Bursary is open to competition at the annual Bursary Examination to all students entering on the first session of attendance at the University, is awarded by the Senate in accordance with the results of that examination, and is tenable for four years. The Bursar on his appointment must elect to follow either the course of study qualifying for the Degree of M.A., or the course of study qualifying for the Degree of B.Sc., and must attend at least two classes each winter session. The Bursary is payable by equal moieties on the second day of February, and at the close of the winter session, but the second moiety of the fourth year's Burse shall not be paid until the Bursar shall have passed all the examinations for the Degree appropriate to the course of study chosen by him at the beginning of his tenure of the Bursary. A vacancy occurring otherwise than by lapse of time may, in the discretion of the Trustees, either be filled up at the first term thereafter, or not till the usual term at which the competition for the Bursary would, in ordinary course, have fallen due, and, in the latter event, accumulations from this source are to be added to the capital fund.

*Bursar*—James M. Templeman, 1891.

JAMES MACFARLANE BURSARY (*Theology*).—Miss Helen Macfarlane, who died on 12th March, 1886, by a Codicil dated 15th August, 1882, to her Trust Disposition and Settlement, directed her Trustees to hand over to the Senate the Portrait of her late brother, Dr. John Macfarlane, Professor of the Practice of Medicine in this University, and the sum of £1,000 free of legacy duty for the foundation of a Bursary in the Faculty of Theology, in memory of her brother, the Rev. Dr. James Macfarlane, minister of Duddingston. Preference to the name Macfarlane. The competition is open to Divinity students of the first year, who hold a Degree in Arts of any Scottish University, or who have passed their examinations in any two departments for graduation in Arts. The Bursary is tenable for three years, but in the case of a vacancy occurring otherwise than by lapse of time, the Senate may appoint, with or without examination, a student of the same standing as the previous Bursar.

*Bursar*—Peter Macnab, 1891.

JOHN MACFARLANE BURSARY (*Medicine*).—Founded in 1874 by the brothers and sister of the late Dr. John Macfarlane, Professor of the Practice of Medicine in this University, and to his memory.

**Patrons—The Medical Faculty.** Value, about £40. Tenable for three years. The competition is open to students who have attended the first session of their professional study in the University of Glasgow, and who have passed in all the subjects of the examination in general education for M.B. The Examination will be held at the close of the first session of professional study. The subjects of Examination to be prescribed by the Patrons; and the success of the candidates in the examination in General Education will form an essential element of the decision. Any surplus which may accumulate from vacancies or otherwise, to be applied to establish a "Macfarlane Prize" in the Class of Practice of Medicine. The subjects of examination for this Bursary are Elementary Anatomy, Elementary Chemistry, and Botany.

*Bursar*—James Clark, 1890.

**MACGROUThER BURSARIES (*Arts*).**—Two in number, founded in 1872, the one by Mrs. Sophia Susan MacGrouther, widow of Mr. James MacGrouther of Leigham Court Road, Streatham, Surrey, who mortified in favour of certain trustees the sum of £500; the other by the Misses Mary and Jane MacGrouther, residing in Glasgow, his sisters, who also mortified in favour of the same trustees the sum of £500, for the purposes of the foundation, and in memory of, and in fulfilment of the intentions of, the said James MacGrouther. The Senate are the Patrons. The Bursaries are awarded by open competition among students entering the Faculty of Arts for the first time, and are tenable for four years; subject in each case to the condition that the Bursar shall pass the examinations required of students proceeding to the Degree of M.A.

*Bursars*—James A. Reid, £20, 1891; William L. Parkin, £15, 1891.

**MACKINTOSH MENTAL SCIENCE BURSARY (*Medicine*).**—Founded in 1889 by Dr. Donald Mackintosh, of London, in memory of his brother, Dr. Alexander Mackintosh, for many years superintendent of the Royal Lunatic Asylum, Gartnavel. Value, about £30. Tenable for one year. The competition is open to matriculated students of medicine who have attended the Lectures on Insanity in the University, and will be awarded in accordance with the results of an examination conducted early in July by the Professor of Practice of Medicine and the Lecturer on Insanity acting conjointly. The holder of the Bursary shall, while he continues to hold it, devote special attention to the practical study of Insanity to the satisfaction of the Faculty of Medicine.

*Bursars*—Robert Bishop and Robert Langmuir, 1891.

**M'KECHNIE BURSARIES (*Any Faculty*).**—Two in number, founded by the Disposition and Trust Settlement of the late Thos. M'Kechnie, merchant in Girvan, who bequeathed for that purpose the sum of £2,000 to the Minister of the Established Church in Girvan, the

Magistrates of Girvan, and others, and appointed them patrons of the Bursaries. The Patrons, in nominating and presenting students to the Bursaries, are instructed to prefer, in the first place, such as are of the founder's kindred ; secondly, such as are of the name of M'Kechnie ; and thirdly, such as were born in the parish of Girvan, provided that such students are properly qualified by their previous education for entering the University of Glasgow. Failing candidates qualified as above, the Bursaries are to be awarded to those who shall be found best qualified and deserving. The Bursaries are tenable for four years. When a vacancy occurs application should be made to Messrs. W. and D. Andrews, solicitors, Girvan, not later than 31st August.

*Bursars*—John M'Kechnie, (Div.), 1891 ; Robert Nelson, (Med.), 1891.

MAITLAND CLUB BURSARY.—In 1888 Dr. W. H. Hill and Mr. J. Wyllie Guild, the surviving members of Council of the Maitland Club, disposed of the remainder of the stock of the Maitland Club publications, and in pursuance of resolutions passed at meetings of the Council held on 3rd and 17th August, 1870, handed over the proceeds (£140) to the Senate for Bursary purposes. The free income is to be annually bestowed without any competitive examination on such student as the Senate may consider deserving. No appointment will be made until the free annual income amounts to £5.

MARSHALL BURSARIES (*One in Theology and One in Medicine*).—Mrs. Barbara Lauter or Marshall, relict of Alexander Marshall, wholesale stationer, Bell Street, Glasgow, by her Will, dated 8th December, 1874, bequeathed to the Senatus of Glasgow University the sum of £1,000, under deduction of legacy duty, to found two Bursaries of equal value, one in Divinity and the other in Medicine. Tenable for four years. Preference to the name of Marshall, but provided "that the Principal and the Professors shall nominate and appoint such students only to the said Bursaries as they shall find, on such examination as they may appoint, to be properly qualified for entering upon the study of Divinity and Medicine at the said University." Present value, £17 per annum to each Bursar.

*Bursar in Theology*—William Sharp, 1890.

*Bursar in Medicine*—<sup>1</sup> Hugh Kerr, M.A., 1888.

MARSHALL TRUST BURSARIES (*Arts*).—Under scheme 198, section 29, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council, on 17th March, 1888, the Governors of the Marshall Trust are instructed to apply (1) a sum not exceeding £300 per annum in providing University Bursaries. These Bursaries are awarded by competitive examination among pupils who have held free scholarships or school bursaries under the

<sup>1</sup> Vacant through lapse of time.

scheme, and pupils who are resident and attending public or State-aided schools in Lanarkshire or Stirlingshire, whose parents or guardians are of the class specified in section 25 of the scheme. The Governors may apply (2) a further sum of £300 per annum in providing similar Bursaries to be awarded solely to pupils who have held free scholarships under the scheme, who shall have competed for but failed to obtain any of the first mentioned Bursaries, but on condition that such free scholars shall pass the examination prescribed by the Governors. Each Bursary is £30 per annum, and is tenable for not more than five years. Forms of application may be obtained from the Secretary of the Trust—Mr. William Mitchell, 134 Wellington Street, Glasgow—and should be lodged with him on or before the 1st day of October in each year. The names of candidates who are found to possess the prescribed qualifications will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for students of the first year. The Bursaries will be awarded to those candidates highest in order of merit who fail to win a Bursary in the general competition. Under (1) there are two vacancies, and under (2) there are also two vacancies.

*Bursars*.—Jas. S. Cuthill, 1889 ; R. A. Meiklem, 1889 ; Alexander Taylor, 1890 ; James A. Higgins, 1890 ; Thomas M. Fletcher, 1891 ; John Reid, 1891.

MENZIES BURSARIES (*Arts*).—The late Mr. James Menzies, of Glasgow, by his Will, dated 3rd November, 1837, left a sum of money to establish four Bursaries at either of the Universities of Edinburgh, Glasgow, or St. Andrews, tenable for four years, one to be given each year. The value of each Bursary is £45 per annum, but varies at the discretion of the Patrons. The Patrons are Sir Robert Menzies, Bart., of Menzies, and the Parish ministers of Dull, Weem, and Fortingall. In the first place, the kindred of the Testator ; secondly, persons of the name of Menzies ; thirdly, those born on the Menzies estates, will be preferred—provided always that they shall be found properly qualified by previous education ; and failing these, the Patrons can present such as shall be found best qualified after due examination. The following are the subjects of examination :—*English*, Reading and Writing from Dictation ; *Arithmetic*, as far as Decimal Fractions ; *Euclid*, first three books ; *Latin*, Caesar de Bello Gallico, first four books, and to translate a piece from English into Latin ; *Greek*, Xenophon's Anabasis, first three books. Bursars to attend in some one of the above Universities the classes in their regular order for the M.A. Degree. Candidates are requested to send their names to Mr. Geo. J. Haynes, Camserney Cottage, Aberfeldy, on or before 20th September.

*Bursars*.—<sup>1</sup>Alexander M'Duff, 1888 ; John Menzies, 1889 ; Hugh Menzies, 1890 ; Joseph H. Menzies, 1891.

<sup>1</sup> Vacant through lapse of time.

**MERCHANTS' HOUSE BURSARIES (*One in Arts, One in Law, and Two in Medicine*).**—Founded in 1879, by the Merchants' House of Glasgow. The Bursaries are of the annual value of £25 each, and are four in number—viz., two in Medicine, one in Arts, including Engineering and Mechanics, and one in Law, tenable by students attending the requisite classes in the above Faculties, with a preference to the sons of matriculated members of the Merchants' House, and such others as the Lord Dean and Directors may deem deserving. 1. The Bursaries in Medicine are tenable for four years. Candidates must be entering on their first winter session of attendance on the ordinary curriculum for Medical Students. 2. The Bursary in Arts, including Engineering and Mechanics, is tenable for four years. Candidates must be entering on their first session of study, and must attend each session two at least of the classes in the Arts curriculum, including, at the option of the candidate, the class of Civil Engineering and Mechanics. 3. The Bursary in Law is tenable for three years. Candidates must be entering on their first session of attendance on the classes in the Faculty of Law, and must give regular attendance for the three years on classes in that Faculty. The subjects of examinations for the above Bursaries will be those prescribed for the General Bursary Competition, special importance being given in the examination for the Arts Bursary to the subject of Mathematics. Applications to be lodged with W. H. Hill, LL.D., Clerk to the Merchants' House, on or before 1st October, 1892.

*Bursar in Arts*—David G. Webster, 1890.

*Bursar in Law*—R. Bruce Taylor, 1890.

*Bursars in Medicine*—<sup>1</sup> William B. Brodie, 1888; Henry A. Watson, 1891.

**METCALFE BURSARIES (*Arts*).**—Founded by the late Miss Sarah Metcalfe, Glasgow, who, by her Deed of Settlement and Codicils, dated respectively 8th August, 30th September, and 7th October, 1853, bequeathed, subject to the liferent of her brother, Mr. William Metcalfe, certain properties in Glasgow, "for encouraging poor students in prosecuting the studies of Mathematics, Practical Astronomy, Chemistry, and Civil Engineering." Mr. Metcalfe died on 25th January, 1869, and by resolution of date 14th April, 1870, the Senate instituted, besides a Metcalfe Fellowship of £100 annual value (for which see Index), at least two Metcalfe Bursaries or Scholarships, each of the annual value of £25, and tenable for two years, subject to the condition that the scholar attend the four classes of Civil Engineering, Senior Mathematics, Practical Astronomy and Chemistry; two at least of these classes to be taken each year. The scholars to be appointed by examination in Pure Mathematics, including the elements of Plane Trigonometry, of Mechanics

<sup>1</sup> Vacant through lapse of time.

and of Theoretical Astronomy, from among matriculated students entering the senior class of Mathematics, or the class of Chemistry.

*Bursars*—<sup>1</sup>Alex. G. G. Guthrie, 1890; <sup>1</sup>James B. Henderson, 1890.

MITCHELL (See Lochhead and Mitchell, p. 199).

MONTEITH BURSARIES (*Arts*).—Founded in 1869 by Mr. James Monteith, of 38 Duke Street, St. James's, London. Three in number, each of the annual value of about £14, and tenable for three years. They are open for competition to all matriculated students of the Faculty of Arts, being natives of Scotland, and sons of Scottish parents, and may be held along with another Bursary. The examination to be in French and German in alternate years. Occasionally an extra Bursary will be given to the second-best candidate, of the same value as the others, but tenable only for one year. At the commencement of session 1892-93 a regular three years' Bursary will be competed for, the examination being in German.

*Bursars*—John Gunn (German), 1890; William A. Lindsay (French), 1891.

JOHN MONTEITH BURSARIES (*Medicine*).—Founded in 1884 by Mrs. Helen Monteith, Greenbank, Dowanhill Gardens, Glasgow, in memory of her husband, the late John Monteith. Mrs. Monteith assigned the sum of £1,000 to Dr. John Gray M'Kendrick, Professor of the Institutes of Medicine, Dr. James Duncan M'Laren, Fellow of the Faculty of Physicians and Surgeons in Glasgow, James Graham, LL.D., writer, Glasgow, and Robert Monteith, her adopted son, as trustees, in the first instance, for the administration of the fund. The annual income after payment of the expenses of administration is to be awarded as two Bursaries to students who have attended the first and second sessions of their professional studies in the University of Glasgow with a view to Graduation in Medicine in that University, and who have passed the whole of the Examination in General Education for the Degree of Bachelor of Medicine, or who possess such a Degree in Arts as may be recognized by the University as exempting from such examination. The Bursaries are tenable for two years. One Bursary is awarded annually in the month of November, and is given to the candidate who gains the highest number of marks in the subjects of Anatomy and Physiology at the Professional Examinations in these subjects held during the previous year (*i.e.*, the April and October preceding said month of November). The founder has directed that it be represented to the holders of the Bursaries that they should feel themselves in honour bound after graduation to render professional assistance to the poor as much as may lie in their power.

*Bursars*—<sup>1</sup>John Morton, 1890; John W. Findlay, 1891.

<sup>1</sup> Vacant through lapse of time.

**MUIR BURSARIES (*Four in Arts and One in Theology*).**—Founded in 1880, in terms of the Trust Disposition and Settlement and Codicil thereto of the late Mr. Matthew A. Muir, merchant in Glasgow, who bequeathed to the Senatus Academicus of Glasgow University, free of legacy duty, the sum of £1,000 for providing a Bursary in connection with the Chair of Divinity, to be awarded to a student of Divinity during the last three years of his curriculum; a sum of £1,000 for providing two Bursaries of equal amount in connection with the Chair of Mathematics, to be awarded to advanced students in Mathematics, the period of tenure to be fixed by the Senate; and a further sum of £1,000 for providing two Bursaries of equal amount in connection with the Chair of Civil Engineering and Mechanics, to be awarded to advanced students of Engineering and Mechanics, the period of tenure to be fixed by the Senate. Any of the Muir Bursaries in Mathematics and Civil Engineering may be held along with another Bursary.

The following rules and regulations have, in accordance with the provisions of the Deed, been sanctioned by Mr. Muir's trustees, and are to be observed in all time coming:—

1. *Muir Bursary in Divinity*.—Candidates must be entering on their first session in Theology in the University, and the appointment to the Bursary shall be determined by the result of the annual competitive examination for Bursaries in Theology. The competition shall be open to candidates holding a Degree in Arts in any Scottish University, or who have passed their examinations in any two departments for graduation in Arts. The Bursary shall be tenable for three years, but the second moiety of the third year's Burse shall not be paid until the Bursar shall have passed the examinations for the Degree of Bachelor of Divinity.

2. *Muir Bursaries in Mathematics*.—Two in number, of which the Junior Bursary shall be tenable for two years, and the Senior Bursary for one year, the former being of half the annual value of the latter. The appointment shall be determined by the proficiency shown by the candidates in the earlier part of their Mathematical course, and the successful candidates shall prosecute the study of the Higher Mathematics during their tenure of the Bursaries. No candidate shall be allowed to hold both Bursaries at the same time. Should the Junior Bursary be resigned by the Bursar at the end of his first year of tenure, the Senate may make an appointment for the remainder of the period.

3. *Muir Bursaries in Civil Engineering and Mechanics*.—Two in number, and of equal value. The appointments shall be determined by the proficiency shown by the candidates in the earlier part of their Engineering course. The period of tenure for each Bursary shall be the session of attendance on the Senior Class of Civil Engineering and Mechanics (Class IV.). Should a vacancy occur by reason of non-attendance of a selected candidate, the Senate may

make an appointment for the remainder of the period. No candidate shall be allowed to hold both Bursaries.

4. The Senate reserve the right to withhold the Bursary in any case in which a satisfactory standard has not been attained by any of the competitors.

5. Arrangements for carrying out these rules and regulations shall from time to time be made by the Senate, and notice thereof shall be published in the University Calendar.

*Arrangements for Session 1892-93.—Muir Bursaries in Mathematics.*—The appointment to the Junior Bursary, tenable during sessions 1893-94, 1894-95, shall be determined by the results of the written examinations passed in the course of the session 1892-93 by the public students of the Upper Junior Class of Mathematics. The successful candidate shall, during session 1893-94, attend the Senior, and during session 1894-95 the Upper Senior Mathematical Class. The appointment to the Senior Bursary, tenable during session 1893-94, shall be determined by the results of the written examinations passed in the course of the session 1892-93 by the public students of the Senior Mathematical Class. The successful candidate shall, during session 1893-94, attend the Upper Senior Mathematical Class.

*Muir Bursaries in Civil Engineering and Mechanics.*—Candidates for the Bursaries tenable during session 1893-94 must be (*a*) students attending during session 1892-93 Engineering Class II., who are also attending or have in a previous session attended the Middle or the Senior Class of Engineering Drawing and Calculations, or (*b*) students attending during session 1892-93 the Middle or the Senior Class of Engineering Drawing and Calculations, who have in a previous session attended the Engineering Class II. or Class III. The appointment shall be made by consideration of merit shown during attendance, and by examination in the subjects of those classes, together with the following subjects in preparation for the Senior Class of Civil Engineering and Mechanics (Class IV.), viz.:—The elements of Plane Trigonometry; the elements of Co'ordinate Geometry; Differential and Integral Calculus in cases of powers of a variable when the index of the power is a whole numeric; and in cases of trigonometrical functions; Principles of curvature; Relation between Neperian logarithms, common logarithms, and logarithms in general; the use of logarithms. The successful candidates shall, during session 1893-94, attend the Senior Class of Civil Engineering and Mechanics (Class IV.).

*Bursars in Mathematics.*—Junior Bursar for session 1892-93, James Rodger, 1891; for sessions 1892-93, and 1893-94, William A. Lindsay, 1892; Senior Bursar for session 1892-93, Charles S. Dougall, 1892.

*Bursars in Civil Engineering and Mechanics for Session 1892-93,* Robert Kennedy, 1892; John H. A. M'Intyre, 1892.

*Bursar in Theology.*—David S. Merrow, M.A., 1891.

**WILLIAM MUIR DIVINITY BURSARIES (*Theology*).**—Established in 1886 by the Governors of the Glasgow General Educational Endowments Board, under Section 35 of their Scheme. The Bursaries are two in number, each of £25 annual value. Candidates must have passed the examination of the Synodical Board for entrance to the Divinity Hall of the University, and must lodge applications with Dr. F. L. Robertson, Hutchesons' Buildings, Ingram Street, on or before the 28th day of October. The Bursaries are awarded in accordance with the results of the competition for Bursaries in Theology, and are tenable for two years.

*Bursars*—<sup>1</sup>James Aiken, 1890 ; John Morrison, 1891.

**NOTMAN BURSARY (*Theology*).**—By deed of Settlement, dated 15th August, 1876, Mrs. Margaret Adam Notman or Napier, of Hillhead, Glasgow, widow of Mr. William Napier, directed her executors to pay over to the Principal and Professors of the Glasgow College, the sum of £500 sterling for the purpose of founding a Bursary in the College, to be called the Notman Bursary, in memory of her father and brother. The Bursar to be a student of Divinity, who shall appear in public examination to be best qualified and deserving. Present value, £17 per annum.

*Bursar*—Gavin Warnock, M.A., 1890.

**ORR-EWING DUMBARTONSHIRE BURSARIES (*Arts*).**—Sir Archibald Orr-Ewing, Bart., of Ballikinrain, M.P., by Bond and Foundation dated 19th September, 1877, bound and obliged himself, his heirs, etc., to pay to the University of Glasgow, and to the Senatus Academicus thereof, as trustees, the sum of £1,600 sterling in seven annual instalments, payable at Martinmas in each of the years following, viz. :—In 1878, £100 ; 1879, £200 ; 1880, £300 ; 1881, £400 ; 1882, £300 ; 1883, £200 ; 1884, £100—to be held and applied for providing four Bursaries of £25 per annum each, tenable for four years, to be competed for in each of the years 1878, 1879, 1880, and 1881. By a letter to the Senate dated 5th February, 1883, he intimated his intention to give yearly four Bursaries of £25 each during his lifetime. The Bursaries are open only to candidates who have attended a Public Parochial, being an ordinary Board School or Schools, in one or more of the landward Parishes of Dumbartonshire, or of the Parishes of Buchanan, Drymen, Balfron, Killearn, Fintry, Strathblane, Baldernock, and Milngavie, being Parishes in the Presbytery of Dumbarton, for the full period of four years immediately preceding the competitive examination for the said Bursaries, who shall at the date of such examination be under the age of 17 years complete, and who shall express their intention of forthwith entering the University of Glasgow and proceeding with the studies required for obtaining the Degree of Master of Arts from the said University, and shall actually enter the said

<sup>1</sup>Vacant through lapse of time.

University accordingly. Each of the said Bursaries shall, as a rule, be tenable for four years, but on condition that each Bursar shall, during or prior to his fourth session of attendance at the said University, have passed two out of the three departmental examinations for the said Degree of Masters of Arts, wherein if he fail he shall forfeit all right to the said fourth year's payment of £25. Candidates will be examined in at least three of the following subjects, viz.:—(1) English Language and Literature, (2) Mathematics, (3) Latin, (4) Greek, of which three subjects English Language and Literature must always be one. Should the examiners not consider the candidates to have passed an examination of sufficient value, or should a sufficient number of candidates not come forward, the Senatus shall offer in subsequent years additional Bursaries of £25 each. In the event of a Bursary becoming vacant otherwise than by lapse of time, the Senatus are to apply the funds thereby left at their disposal for the benefit of Divinity students belonging to Dumbartonshire.

*Bursars*—<sup>1</sup>John G. Crammer, 1888; <sup>1</sup>James Allan, 1888; <sup>1</sup>Charles Cairnie, 1888; <sup>1</sup>Morris Frater, 1888; William L. Bain, 1889; John Chalmers, 1889; James R. Drever, 1889; Robert J. Paul, M.A. (Div.), 1891 (1889); George Gardner, 1890; William Morrison, 1890; William W. Loggie, 1891; William W. Lang, 1891. (Eight vacancies.)

**JAMES PATERSON BURSARY (Arts).**—Founded in 1885 in commemoration of the completion, in 1879, of the fiftieth year of the existence of Adelaide Place Baptist Church, Glasgow, and of the Pastorate thereof of Dr. James Paterson during the same period. The sum subscribed for the purpose, amounting with interest to £619, was assigned and conveyed to the Senate in trust to be applied in all time coming to provide a Bursary in the Faculty of Arts to be called the James Paterson Bursary. The Bursary is tenable for four years, and is open to competition to any student of the first year in Arts who is a member of a Baptist Church, and who is entering upon his studies with a view to the ministry in the Baptist denomination. The Bursar during his tenure of the Bursary must be a member of Adelaide Place Baptist Church or of some other Baptist Church in Glasgow or neighbourhood. The Bursar must graduate in Arts, and before payment of the second moiety of the last year's Bursary must produce evidence that he has taken the Degree, or that he has obtained all the certificates necessary for graduation. On the Bursary falling vacant otherwise than by lapse of time, the Senate may appoint for the remainder of the term, or for the full period after competition. Before payment of the second moiety in each year the Bursar must produce a certificate of fitness for the ministry from a Committee of Adelaide Place

<sup>1</sup>Vacant through lapse of time.

Baptist Church, from the Baptist Union of Scotland, or some recognized Educational Institution of the Baptist Body.

*Bursar*—John D. Robertson, 1890.

PATRICK BURSARIES (*Arts*).—Two in number, founded in 1860, by Mr. William Patrick, of Roughwood, W.S., the one consisting of the free annual proceeds of a sum of £2,000 of consolidated stock of the Glasgow and South-Western Railway, the other of the free annual proceeds of £1,000 of the same stock. They are tenable for two years, but may be continued for other two. Candidates must have gone through a course of education at some one of the Public Schools in the County of Renfrew, where a regular course of Classical Study is pursued, and must be in circumstances to render it desirable that they should have assistance in prosecuting their studies at the University. The Rector or Head Teacher of such Public School to grant a certificate to any number, not exceeding four of his best scholars, who shall be entitled to present themselves to the Principal and Professors as candidates for the Bursaries. Certificate forms may be obtained from the Assistant Clerk (Matriculation Office).

The examination is in Latin, Greek, Elementary Mathematics, and English.

*Bursars*—<sup>1</sup>Roderick M. Matheson (£40), 1890; William G. Bell (£80), 1891.

GLASGOW PERTHSHIRE SOCIETY'S BURSARY (*Arts*).—Founded by the Glasgow Perthshire Society in 1873. Value, £25, and tenable for three years. Open to competition to natives and sons of natives of the county of Perth, and also to sons of persons who are *bona fide* residents in that county, and have resided in it for not less than three years at the time of the competition. Candidates must be entering on their first year of attendance as students in the University of Glasgow, and the holder of the Bursary will be required to complete attendance on at least two of the classes in the curriculum of Arts in each session. Names of candidates to be sent to Mr. George Gray, writer, County Buildings, Glasgow, Secretary of the Society, not later than the first October preceding the competition.

*Bursar*—James Smith, 1891.

POLLOCK BURSARIES (*Arts*).—Founded in 1878, in terms of the Trust Disposition and Settlement of the Rev. Alex. Pollock, senior minister of the Free South Church, Paisley, who bequeathed £3,000, free of legacy duty, for that purpose. The Bursaries are designed to assist young men entering the University of Glasgow, whose circumstances are such as to render it desirable that they should have assistance in prosecuting their studies. The patrons are the Principal and Professors in the Faculty of Arts. Each candidate must lodge along with his application a letter from the Rector,

<sup>1</sup> Vacant through lapse of time.

Headmaster, or Classical Teacher of one of the Public Schools or Public Academies within the parliamentary boundaries of the burgh of Paisley, where a regular course of Classical study is pursued, certifying that he has completed his course of education at such school or academy. Certificate forms may be obtained from the Assistant Clerk (Matriculation Office). Should no such qualified candidates present themselves, or should the otherwise qualified candidates fail to reach a satisfactory standard in the Bursary Examination, the Bursary or Bursaries vacant for the time being shall be open to all the candidates in the ordinary Bursary Competition. The Bursaries are three in number, and are tenable for three years, during which period the Bursars must be students in the Faculty of Arts. The second moiety of the third year's Burse shall not be paid until the Bursar shall have obtained at least two of the Departmental Certificates for the Degree of Master of Arts.

*Bursars*—<sup>1</sup> Robert H. Coats, 1889; William Cumming, 1890; James Hair, 1891.

RAINY BURSARIES (*Medicine*).—In 1872, Dr. Harry Rainy, Emeritus Professor of Medical Jurisprudence in this University, made over to the Senate the sum of £1,000 for the institution of two Bursaries in the Medical Faculty, and a further sum of £500 to be invested as a supplementary or augmentation fund. The interest of the Bursary Fund is to be divided annually between the two Bursars; and the interest of the supplementary fund is to be employed towards defraying the expenses of administration, and bringing up, when necessary, the annual salaries of the Bursars to £20 each, and increasing the supplementary fund. Should this fund accumulate to £1,000, one half of it is then to be added to the Bursary fund, the interest of which shall be divided as before between the two Bursars. If by this process of augmentation, which is to be repeated as often as the supplementary fund amounts to £1,000, the Bursary fund shall at length yield £60 per annum to each Bursar, the Senate may continue the same process, or constitute additional Bursaries on the principle explained above, the original Bursaries remaining of the value to which they have been raised by augmentation. The augmentation fund is not at any time to be reduced below £500.

One Bursar shall be elected annually after competitive examination on the subjects of Anatomy, Chemistry, Botany, Physiology, and Zoology. The competition is to be open to all students who have completed two years of the regular Medical curriculum at the University of Glasgow, and who are about to commence their third winter session; and the examination is to take place in the month of October.

The successful candidate may hold his Bursary for two years,

<sup>1</sup>Vacant through lapse of time.

namely, during his third and fourth years of study in the University of Glasgow. A vacancy occasioned by death, irregular attendance, or misconduct, is not to be filled up till the usual term at which the competition for that Bursary would have fallen due, and accumulations from this source are to be added to the supplementary fund.

In 1892 the competition for one of these Bursaries will be held on 3rd and 4th October. Candidates are required to give in their names (with Certificates) to the Assistant Clerk (Matriculation Office), on or before the 1st October.

*Bursars*—<sup>1</sup> James M. Young, 1890; Clarence B. Harrison, 1891.

**RAMSAY WALKER BURSARIES (Arts).**—Two in number, founded in 1879, under the Trust Disposition and Settlement of Miss Ramsay Walker, Crosshill, who bequeathed £700, reduced by legacy duty to £630, for educating two students with a view to the ministry of the Established Church of Scotland. Preference to kindred of the founder, whom failing, to students of the name of Walker, whom failing, to natives of Glasgow, whom failing, the Bursaries will be thrown open to public competition. Candidates must be qualified by their previous education for entering the University. Tenable for four years. (Both vacant.)

**Ross BURSARY (Arts).**—This Bursary was founded in 1659 by Captain Wm. Ross, of Rosscyle. It is tenable for four years, and the appointment is vested in the Earl of Glasgow. Value, £4 3s. 4d. per annum.

*Bursar*—George S. M'Kinnon, 1890.

**JOHN ROSS, JUNIOR, BURSARY (Theology).**—Founded in 1880 by Mrs. Ross, widow of Mr. John Ross, junior, merchant in Glasgow, in memory of her husband. Patrons—The Senate of the University. The Bursary Fund consists of the capital sum of £1,000, set aside by Mrs. Ross for that purpose. The Bursary is tenable for three years by a student of Divinity in the regular course of study for the degree of Bachelor of Divinity with a view of becoming a clergyman of the Established Church of Scotland. Candidates must be entering on the first session of their study in Theology in the University, and the award shall be determined by the result of the annual competitive examination for Bursaries in Theology. In cases of equality in the competition there is a preference to the student who may be thought to stand most in need of help to carry on his theological studies, or to one who is a native of Ayrshire. The second moiety of the third year's Burse shall not be paid to any Bursar unless and until he shall have passed all the examinations required for the degree of B.D. In the case of a vacancy occurring otherwise than by lapse of time, the Senate may appoint, with or without examination, a student of the same standing as the previous Bursar.

*Bursar*—William S. Brownlee, M.A., 1890.

<sup>1</sup> Vacant through lapse of time.

SANDERS BURSARY.—(See Boyd and Sanders Bursary, p. 180.)

SCOTT BURSARIES (*Arts*).—Founded in 1874, along with the Scott Scholarship, on the occasion of the centenary of the birth of Sir Walter Scott ; the Committee having resolved to employ the fund, raised by public subscription, which amounts to £3,500, “for the benefit of distinguished University students.” The fund is administered by trustees, two of whom are elected by the Senatus, two by the Merchants’ House, one by the Faculty of Physicians and Surgeons, one by the Faculty of Procurators, and one being the Council’s Assessor in the University Court, *ex-officio*. The Bursaries are now three in number, each of the annual value of £25, and tenable for four years. They are open to free competition, under the same regulations as the competition Bursaries in the University.

*Bursars*—<sup>1</sup> Andrew B. Nielson, 1888 ; Alfred J. Fleming, 1890 ; Archibald C. M’Gilchrist, 1891.

SHEARER BURSARIES (*Any Faculty*).—Founded in the year 1887, by Archibald Shearer of Boag, who resided in Beith. By Deed of Mortification executed by Mr. Shearer, dated 29th April, 1887, he conveyed his lands of Boag, in the parish of Kilbirnie, to trustees for the foundation and endowment of three Bursaries for the advancement of the higher education of the young men of his native parish of Dalry in the county of Ayr. The Deed provides that the Bursaries shall be open to applicants between the ages of fourteen and twenty-four, who are the sons of parents or of a surviving parent *bona fide* resident for a period of not less than two years, immediately preceding the date of application in the parish of Dalry, or to applicants who, for a period of not less than the last two years of their school curriculum, have received their education in the schools within the said parish, to enable the Bursars to pursue their education as students at the University, in one or other of the Faculties. Students who have enjoyed a Bursary during their Arts course are eligible for a second Bursary in another Faculty. Applicants to undergo such examination as the trustees may from time to time appoint. Each Bursary to be one-third of free income from the lands of Boag, but not exceeding the annual sum of thirty pounds, and to be tenable for three years. Further information will be afforded by the Agents of the Trustees, Messrs. J. & J. M’Cosh, writers, Dalry.

SMITH BURSARIES (*Any Faculty*).—Two in number, founded in 1849 by Dr. John Smith, of Crutherland ; not restricted to any particular description of students. Patrons—The Directors of the Incorporated Company of Stationers. Sons of members of the Company preferred ; then sons of persons connected with any of the trades included in their charter, whom failing, such other students

<sup>1</sup> Vacant through lapse of time.

as may be approved of by the patrons. Value, £9 per annum each. Tenable for one or more years at the option of the patrons. Applications to be made to Mr. R. Brodie, 77 St. Vincent Street, Glasgow.

*Bursar*—J. Russell Aitken, 1887 : C. M. Burnside, 1888.

STEVENSON OF DALRY BURSARIES (*Arts*).—The Rev. Robert Stevenson, D.D., minister of the Parish of Dalry, Ayrshire, who died on 11th September, 1890, by his Trust Disposition and Settlement, dated 28th July, 1850, directed his Trustees to pay over to the University Court the sum of £2,000, free of legacy duty, for the foundation of two bursaries in Arts. They are open for competition to students entering on the first or second session of attendance in the Faculty of Arts, who are prosecuting their studies with a view to the ministry of the Church of Scotland, with a preference in the first place to natives of the parish of Dalry in Ayrshire, and in the second place to natives of the parishes of Baconstockburn or St. Ninians in Stirlingshire. The Bursaries, which are of equal value, are tenable for four years. (One vacancy.)

*Bursar*—David Morrison, 1891.

STEWART BURSARIES (*Arts*).—These Bursaries, three in number, founded in 1809 by the Rev. James Stewart, are in the gift of the Senate. They commence with the Humanity or the Greek Class, and may be held during the Gown Course. Value, £15 per annum each. The names Stewart and Simpson are preferred. In case of a vacancy, a student of the same standing is appointed.

*Bursars*—<sup>1</sup> Frederick R. Stewart, 1889 (1888) ; Robert Simpson, 1891 (1890) ; John Stewart, 1891.

GLASGOW STIRLINGSHIRE AND SONS OF THE ROCK SOCIETY'S BURSARY (*Arts*).—Founded in 1876 by the Glasgow Stirlingshire and Sons of the Rock Society. Value, £25 per annum, and tenable for four years. The Bursary is open to competition to "all students who have been born and educated in the county of Stirling." Candidates must be entering on their first session of attendance in the Arts Classes. Secretary of the Society, Mr. Arthur Forbes, writer, 146 Buchanan Street, Glasgow.

*Bursar*—James Watchman, 1890.

STRUThERS BURSARY (*Theology*).—In 1624, the Rev. William Struthers founded two Bursaries for students in Divinity. Value, £6 13s. 4d. per annum each. By ordinance of the Universities Commissioners, of date 17th May, 1862, these Bursaries were conjoined into one, tenable for three years; the holder to be M.A. and a student of Divinity. All other restrictions were abolished. The right of nomination belongs to the Magistrates and Town Council of Glasgow.

*Bursar*—Bryce M'Farlane, M.A., 1891.

<sup>1</sup> Vacant through lapse of time.

TAYLOR BURSARIES (*Any Faculty*).—Two in number, founded by Mr. James Taylor, writer in Glasgow, who by Trust Disposition and Settlement, of date 30th June, 1857, bequeathed to the University the sum of £800 for Bursaries. After Mr. Taylor's death, the trustees found that the estate was not sufficient to pay the various legacies in full. They paid over to the University in January, 1868, the sum of £560, and in September, 1878, a further and final dividend of £80, making in all £640, the free proceeds of which are applied to the payment of the two Bursars. The Senate are Patrons. Preference to the names Tayler or Taylor, Ronald, Dunlop, Henderson, and M'Arthur.

*Bursars*—<sup>1</sup> John Taylor, 1888 ; Campbell Taylor, 1891.

JAMES THOMSON PHILOSOPHICAL ENTRANCE BURSARY (*Arts, Phil.*).

Founded by subscription in 1878 in memory of James Thomson, M.A., a distinguished student of this University, who died in 1876, before the close of his theological curriculum. The Bursary consists of the proceeds of a sum of about £300, and is tenable for two years. It is awarded biennially for the best examination in (a) Mental Philosophy and (b) English Literature alternately, the candidate being at liberty to offer a special subject. The examination is open to all students of the first and second year who have not already attended any Class in the Philosophical Department, and who have not attended a session in any other Scottish University. The Bursary is payable in four instalments, but the last instalment will not be paid till the Bursar has passed the Departmental Examination in Classics for the M.A. Degree in Glasgow University. The subjects of Examination in Mental Philosophy are the same as for the John Ferguson Jaffrey Bursary in Mental Philosophy.

The next examination will be held in November, 1892, the subject of examination being Mental Philosophy.

*Bursar*—<sup>1</sup> Angus King, 1890.

WALKINSHAW YOUNG BURSARY (*Law*).—Founded in 1878 by Major Young, Dunmore, Kirn, who bequeathed to the University a sum of £500, free of legacy duty, for promoting any useful branch of Education which the Principal and Professors may think proper.

The following regulations have been adopted :—

1. The Bursary shall be tenable for two years, during which the holder shall give regular attendance as a public student in the Faculty of Law in the University, to the satisfaction of the Senate.

2. All persons who within two years previous to the time when an appointment to the Bursary is made, have at an examination in Arts, for the Degree of B.L. passed in not fewer than two Arts subjects, or have passed a Departmental Examination for the Degree of M.A., shall be eligible as candidates, and the Senate shall appoint that one among the candidates who in their opinion is the most

<sup>1</sup>Vacant through lapse of time.

distinguished. A student who passes a qualifying Examination in the November of the session in which an appointment is made, shall be held eligible within this rule, but one who has passed an examination in the November two years preceding such an appointment, and has not passed any subsequent qualifying examination, shall not be eligible.

3. The Bursary shall not be tenable along with any other Bursary or Scholarship in the University.

The next appointment to this Bursary will be made in December, 1892. Applications to be sent in to the Clerk of Senate on or before 1st December.

*Bursar*—<sup>1</sup> Andrew G. Murray, 1890.

WALTON BURSARY (*Medicine*).—This Bursary was founded in 1763 by Dr. William Walton, Huntingdon, for a student in Medicine. The Earl of Sandwich has the right of appointing to the Bursary one of two Students nominated by the Senate. Preference is given to "Students of the English Nation." The Bursary may be held for four years. Value about £36 per annum.

*Bursar*—Robert E. Newton, 1890.

ANDREW WEIR BURSARY (*Medicine*).—Founded in 1884, in terms of a Bequest by Mrs. Janet Maxwell or Weir, relict of Andrew Weir, feuar in Paisley. Mrs. Weir bequeathed the sum of £500 to the University, and directed the annual income of the legacy to be devoted to maintaining a Bursary in connection with the Medical School, in such a manner as the Senate may appoint. The Bursary is in memory of a son of the founder, Andrew Weir, a medical student of Glasgow University, who held subsequently the post of Resident Physician in the Paisley Infirmary, and in the discharge of his duties there contracted a fever, of which he died. The Bursary is awarded annually at the beginning of the Winter Session in accordance with the results of the second and third professional examinations, account being taken of the marks gained by all students who have passed both of these examinations within a period not exceeding thirteen months, reckoning backward from the date of the professional examinations in October of each year. During the tenure of this Bursary, which may be held along with another Bursary, the holder shall be bound to give regular attendance on the classes of the medical curriculum in the University.

*Bursar*—John Morton, 1891.

WILLIAMS BURSARIES (*Arts and Theology*).—The Rev. Dr. Williams, London, in the year 1711, bequeathed to certain individuals in London, in trust, an estate, to found Bursaries for educating natives of South Britain at the University of Glasgow. The founder, with a particular view to support the cause of Protestant dissent in England, directs that every Bursar on this foundation shall promise, in writing, to become a preacher among the dissenting ministers of that country. The Bursaries are tenable for three

Vacant through lapse of time.

years, but renewable for another year on application, on the understanding that the student has graduated in Arts, and is about to enter the Divinity Hall. Value, £40 per annum each. The right of presentation is vested in the founder's trustees. Secretary to the Trust—Mr. Francis H. Jones, Dr. Williams' Library, Gordon Square, London, W.C. The state of the funds of this foundation will not admit of more than one appointment being made in session 1892-93.

*Bursars*—<sup>1</sup> Herbert Stowell, 1889 ; Thomas W. Jones, 1890.

**WILSONE BURSARY (Theology).**—Two Bursaries, value £6 13s. 4d. per annum each, were founded by Mr Michael Wilsone, in 1640. Patrons—The City Magistrates and Council.

By ordinance of the Universities Commissioners, of date 17th May, 1862, confirmed by Her Majesty in Council, these Bursaries were conjoined into one, tenable for three years ; the holder to be M.A. in regular attendance as a student of Theology. Restrictions as to kindred, etc., abolished.

*Bursar*—<sup>1</sup> John Boyle, M.A., 1889.

**MAJOR YOUNG'S FUND BURSARIES (Law).**—Two in number, founded in 1890, by the Trustees of the late Major Young, founder of the Walkingshaw Young Bursary. The amount of the Bursary Fund is about £1312, and each of the Bursars receives one-half of the free annual income thereof. In accordance with Major Young's desire, the Bursaries are open only to applicants whose pecuniary circumstances are such as in the judgment of the Senate render it desirable that they should have assistance in prosecuting their studies at the University, preference being given, *ceteris paribus*, to natives of Argyllshire or Renfrewsh're. One of the Bursaries is tenable for six years, and is awarded by competitive examination to a student of the first year who intends to study for a Degree in Law. The Bursar is required during his tenure of the Bursary to attend such classes, and to pass such examinations for a Degree in Law as shall be held by the Senate to correspond to the successive stages of his course ; and he must attend a class or classes in the Faculty of Law during at least the last two years of his tenure of the Bursary. The other Bursary is tenable for two years, and is awarded by competitive examination upon subjects prescribed by the Senate. Candidates must have expressed their intention of attending the classes of Scots Law and Conveyancing, and the Bursar must attend these classes in separate sessions during his tenure of the Bursary. Either of these Bursaries may be held with any other Bursary, Scholarship, or Prize in the University, but both shall not be held together by one Bursar. The subjects of examination are those prescribed for the General Bursary competition.

*Bursars*—<sup>1</sup> Harry Lumsden (two years), 1890 ; Alexander M. MacRobert (six years), 1890.

<sup>1</sup> Vacant through lapse of time.

## 2. EXHIBITIONS, FELLOWSHIPS; AND SCHOLARSHIPS.

ALPHABETICALLY ARRANGED.

FOUNDATION.	No. of Scholarships, &c.	TENABLE BY	Approximate Annual Value of each.
Black Theological,	1	Masters of Arts of Scot. Univ.,	£140
Breadalbane,	2	Do. Glas. Univ.,	£50
Clark, George A.,	4	Do. do.	£175
Clark, John (Mile-end),	8	Arts Students at close of Curric.,	£50
Clydebank,	1	Students of Naval Architecture,	£10
Cunninghame,	2	Bachelors of Laws of Glas. Univ.,	£32
Alexander Donaldson,	1	Candidates for B.Sc. (Chemistry),	£38
Robert Donaldson,	2	Bachelors of Science of Gl. Univ.,	£62
Eglinton,	2	Masters of Arts of do.	£100
Euing, William,	3	Do. do.	£80
Ferguson,	6	Masters of Arts of Scot. Univ.,	£80
Foulis Memorial,	1	Medical Graduates or Licentiates,	£50
International Exhibition	2	Science Students,	£150
Lloyd's Register,	1	Students of Naval Architecture,	£50
Luke,	1	Masters of Arts of Glas. Univ.,	£110
Mackay Smith,	2	Students in Nat. Phil. and Chem.,	£48
Metcalfe,	1	Masters of Arts of Glas. Univ.,	£100
Sandford,	1	Greek Students, do.	£20
Scott,	1	Masters of Arts of do.	£80
Shaw Philosophical,	1	Do. Scot. Univ.,	£160
Snell (at Oxford),	5	Masters of Arts, etc., Glas. Univ.	£80
Thomson Experimental	3	Students of Natural Philosophy,	£20

*N.B.* In cases in which a Scholarship or Fellowship falls vacant otherwise than by lapse of time, the Senate may, except where it is inconsistent with the deed of foundation, hold a competition, and make an appointment for the remainder of the period for which such Fellowship or Scholarship may be held. At the next ordinary competition no student shall be excluded from the competition by reason of his having previously been appointed to fill a vacancy for less than the full period; but in no case shall any student hold such Scholarship or Fellowship for longer than the full period fixed in the regulations applicable to such foundation.

**BLACK THEOLOGICAL FELLOWSHIP.**—This fellowship, of the annual value of £140 or thereby, was instituted under the Will of the late Mrs. Janet Black (who died in 1876) in memory of her husband, the Rev. William Black, D.D., minister of the Barony Parish of Glasgow. Candidates must be members of the Established Church of Scotland.

The following regulations have been adopted by the Senate with the sanction of the University Court:—

1. The Black Theological Fellowship shall be tenable for two years.

2. It shall be awarded by competition open to Masters of Arts from any of the Universities of Scotland who shall complete the ordinary curriculum of Theological study in the University of Glasgow in the year in which the examination is held, or who shall have completed that curriculum in any of the three preceding years.

3. At the competition in November, 1885, and thereafter in November at intervals of four years (November, 1893), the examination shall be in Hebrew (with one cognate language), New Testament Exegesis, and Apologetics ; and at the competition in April, 1887, and thereafter in April at intervals of four years (April, 1895), the examination shall be in Divinity (Biblical and Systematic Theology), Church History, and Biblical Criticism.

4. The Fellowship shall be awarded by the Theological Faculty only when the examining Professors shall report that the Candidate is of sufficient merit.

5. The holder of the Fellowship shall, during the tenure of it, perform such duties—whether in the form of giving a short course of lectures, or of undertaking tutorial work, or otherwise—within the University, as may be assigned to him by the Faculty of Theology with the sanction of the Senate.

6. No candidate who has gained the Fellowship at one examination shall be at liberty to compete for it a second time.

7. The Fellowship shall not be held in conjunction with any other Theological Fellowship or Scholarship falling to be awarded at the same time, or subsequently during its tenure.

The ninth competition shall take place in November, 1893. The examination will be on the subjects prescribed for the first department of the examination for the degree of B.D., and on additional subjects, including Aramaic.

*Present Fellow*—Ewen A. Rankin, B.D., April, 1891.

BREADALBANE SCHOLARSHIPS.—The second Marquis of Breadalbane, an alumnus, and afterwards Rector of the University, gave from the first year of his Rectorship (1840-41), and during his lifetime, the sum of £100 annually, which was for some years distributed in prizes among certain classes, and afterwards appropriated to the establishment of two Scholarships, the one in Mathematical and Physical Science, and the other in Mechanical Philosophy, Chemistry, and those branches of Natural History that are connected with the Arts and Manufactures.

The Marquis died in 1862, and his Deed of Settlement made provision for the “annual payment, in all time coming, to the University of Glasgow, of the sum of £100, to be paid yearly to deserving students in this college, as Scholarships or Bursaries, to be called the ‘Breadalbane Scholarships,’ in such manner as shall be fixed by the Senatus Academicus of the said University.”

The following regulations have been approved by the Senate :—

The number of Scholarships shall be two, of £50 each per annum, for the encouragement of pure and applied Science.

The scholars shall be chosen, after competitive examination in Mathematics and Natural Philosophy, from among candidates who shall have taken the Degree of Master of Arts, or the Degree of Bachelor of Science in the Department of Engineering Science, at the University of Glasgow, within a period of not more than three years preceding the examination ; provided always that students graduating at the supplementary graduation in November of any year, shall, for all purposes, be held to have graduated at the ordinary graduation in May immediately preceding.

Each scholar shall pursue such course of scientific study during the tenure of his Scholarship as the Senate shall in each case prescribe, and shall hold his Scholarship for three years, provided that at the end of the 1st and 2nd years he give the Senate such evidence, by examination or otherwise, as the Senate shall deem sufficient, of having successfully prosecuted the prescribed course of study.

One of these Scholarships will be competed for in October, 1892. Names of candidates to be given in to the Assistant Clerk (Matriculation Office), on 1st October, 1892.

*Scholars* —<sup>1</sup> Abraham Levine, M.A., 1889 ; Peter Pinkerton, M.A., 1890.

GEORGE A. CLARK BURSARIES OR SCHOLARSHIPS.—By the Will of the late Mr. George A. Clark, manufacturer, Paisley, a sum of £20,000 was bequeathed in 1872 to this University for the creation of four Bursaries, tenable each for four years. The following are the regulations :—

1. One of these Bursaries shall be competed for annually, at or immediately after the October examination for Degrees in Arts.

2. The Candidates for the Bursaries shall be either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours, in any one of the four departments, enumerated in the ordinances of the Universities Commissioners, No. 14, § VII., and No. 18, § III., viz. :—

- (1) Classical Literature.
- (2) Mental Philosophy, including Logic, Metaphysics, and Moral Philosophy.
- (3) Mathematics, including Pure Mathematics, and Natural Philosophy.
- (4) Natural Science, including Botany, Geology, Zoology, and Chemistry.

But no student shall be eligible for the examination after the

<sup>1</sup> Vacant through lapse of time.

expiration of more than three winter sessions from the time of his completing the course necessary for the M.A. Degree.

3. The successful candidate shall undertake, during his tenure of the Bursary, to give such assistance in the teaching work of the University, and to follow such a course of study in the University, as the Senate may determine.

4. The subjects of examination each year shall be those which constitute the examination for Honours in one of the above-named departments (the department selected each year for examination to be publicly announced). The Senate reserve the right to withhold the Scholarship, should none of the competitors reach the standard of attainment required of graduates in Arts with highest honours.

5. In the event of the examiners reporting in any year that no candidate has done sufficiently well in the subjects of that year to deserve the Scholarship, no appointment shall be made in that year; but it shall be in the power of the Senate to hold an examination for the same Scholarship, and in the same subjects, in the following year, provided that in that case the Scholarship shall be held for three years only and not for four, the surplus revenue being added to the capital of the fund. Should the same thing occur again, it shall be in the power of the Senate to appoint a Scholar for two years only, or for one year only, the examination in each case being in the same subjects as when the Scholarship was first competed for. In the same manner, in the event of a vacancy occurring in the tenure of any of the Scholarships otherwise than by lapse of time, the Senate may make an appointment for the remainder of the term for which the Scholarship might have been held by the student vacating it, and after examination in the same subjects as those for proficiency in which the Scholar was originally appointed; but in no case shall the regular rotation of subjects as above provided for be disturbed. In the competition for scholarships to be held for less than four years, no student shall be admitted to examination who would not be eligible, as above arranged, for a Scholarship to be held for four years. In the event of a candidate being appointed to a vacancy to be filled for less than four years, and being still eligible, under the usual regulations as above, to compete for the said Scholarship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Scholarship, but in no case shall any student be permitted to hold the Scholarship for more than four years in all.

6. It shall not be competent for the holders of these Bursaries to hold any other Bursary or Scholarship in this University.

7. It shall be in the power of the Senate to deprive any Bursar of his Bursary, in the event of his not complying, to their satisfaction, with any of the above regulations.

8. The Examiners shall be the same as the Examiners for the Degree of M.A. with Honours in each of the several departments.

Two of these Bursaries or Scholarships will be competed for, subject to the foregoing regulations, in October, 1892. One will be tenable for four years, and the examination will be in the fourth of the four departments above enumerated—viz., Natural Science. The other will be tenable for two years, and the examination will be in Mental Philosophy. Candidates are requested to give in their names to the Assistant Clerk (Matriculation Office), not later than 1st October.

*Bursars*—<sup>1</sup> Robert Kennedy, M.A., B.Sc., 1888 (Natural Science); David Smith, M.A., 1889 (Classics); <sup>2</sup>Evan K. Evans, M.A., 1890 (Mental Philosophy); James Holm, M.A., 1891 (Mathematics).

**JOHN CLARK (MILE-END) SCHOLARSHIPS.**—By the Deed of Constitution regulating the John Clark Bursaries (see page 183), the Founder, Mr. John Clark, also instituted Scholarships of £50 annual value, open for competition to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University. The Scholarships are to be awarded to the candidates who stand highest at written examinations in the branches of learning appointed by the trustees, and are tenable for four years, subject to the condition that the Scholars give their undivided time and attention to the prosecution of their studies with a view to any of the learned professions, or, on approval of the trustees, any other profession or business they may prefer. The trustees do not appoint any one who already holds a scholarship of greater value. Three Scholarships will be competed for in October, 1892, one in the department of Classics, one in the department of Mental Philosophy, and one in the department of Mathematics. The examination will be on the subjects prescribed for the Degree of M.A. with Honours in the respective departments.

Names of candidates to be given in to the Assistant Clerk (Matriculation Office), on or before the 1st October, and also to Mr. Wm. Kidston, 50 West Regent Street, Glasgow.

*Scholars*—<sup>1</sup> Robert Scrymgeour, 1888; <sup>1</sup>Alexander Holm, 1888; <sup>3</sup>James Holm, 1889; James Hunter, M.A., B.Sc., 1889; James Moffat, 1890; Campbell C. Edgar, 1891; Robert B. Douglas, 1891.

**CLYDEBANK SCHOLARSHIP.**—Founded in 1885 by Messrs. James & George Thomson, engineers and shipbuilders, Clydebank. The endowment is in the meantime for six years, but will be made permanent should the experiment be successful. Value, £10 per annum. The Scholarship is to be competed for biennially, at such times as the Senate may appoint, by young men not under 18 years of age, who have been employed at least three years as working apprentices, or in the drawing offices of shipbuilding or engineering

<sup>1</sup>Vacant through lapse of time.

<sup>2</sup>Vacant by resignation.

Scholar appointed to a more valuable Scholarship.

works situated in the districts of Clydebank, Yoker, or Dalmuir. The subjects of examination include Plane and Descriptive Geometry, Algebra, Plane Trigonometry, Elementary Dynamics and Hydrostatics. The successful candidate must attend during the two years for which it is tenable the course of lectures and of instruction in ship-drawing and calculations given by the Professor of Naval Architecture. When a vacancy occurs candidates are required to send in their names (with certificates) to the Assistant Clerk (Matriculation Office), on or before 1st October.

*Scholar—*

ANDREW CUNNINGHAME SCHOLARSHIPS.—Mr. Andrew Cunningham, Town Clerk Depute of Glasgow, who died in 1886, bequeathed to the University, free of legacy duty, £5,000, for the purpose of completing the tower, and also £350, the annual revenue of which was to be applied in purchasing a gold medal as a prize in the class of Mathematics. He also bequeathed to the Senate £2,000 for two Bursaries or Scholarships in connection with the Scots Law and Conveyancing Classes. The following regulations were adopted by the Senate on 15th March, 1888:—

1. One-half of the free income of the bequest shall be applied for the purpose of a Scholarship in connection with the class of Scots Law, and the remaining half for the purpose of a Scholarship in connection with the class of Conveyancing.

2. Each Scholarship shall be tenable for two years.

3. On each vacancy the candidate who, in the opinion of the Senate, is the most distinguished Bachelor of Laws of the year, shall be appointed, special consideration being given to eminence in Scots Law and Conveyancing.

4. Students who have been found qualified for the Degree of LL.B. at the spring and winter graduations of the year in which the appointment is made, shall be eligible as candidates.

5. The conditions of holding the Scholarships are that the scholars give such assistance in the work of the classes of Scots Law and Conveyancing respectively as the Professors of these Classes may require, subject to the approval of the Senate.

6. In the event of a vacancy occurring during the tenure of any Scholarship, the Senate may, if they think fit, appoint a Scholar to hold the Scholarship for the unexpired period.

An appointment to the Conveyancing Scholarship will be made in November, 1892.

*Scholars.*—<sup>1</sup> Gavin Braidwood, LL.B., 1890; Thomas H. Lillie, LL.B., 1891.

ALEXANDER DONALDSON SCHOLARSHIP OR BURSARY.—Founded in 1881, by Will of the late Mr. Alexander Donaldson, iron merchant

<sup>1</sup> Vacant through lapse of time.

in Glasgow, who bequeathed to the Senatus of Glasgow University £1,000, to be administered by them as patrons for the endowment of a Scholarship or Bursary, at their discretion, in connection with the said University.

The following regulations were adopted by the Senate on 1st May, 1884 :—

1. The Scholarship shall be awarded to the candidate who, presenting himself for the first examination for the Degree of B.Sc., held in the month of April, shall stand highest in Chemistry.

2. The Scholarship shall be tenable for two years.

3. The second moiety of the second year's stipend shall be paid only after the Scholar has passed all the examinations for the Degree of B.Sc.

These regulations apply to students proceeding to the Degree of B.Sc. under the new regulations for that Degree.

*Scholar*—David R. Boyd, 1890.

ROBERT DONALDSON SCHOLARSHIPS.—Founded in 1887 by the trustees of the late Mr. Robert Donaldson, iron merchant, Glasgow, who left £2,000 to the Senate for two Scholarships for such scientific purposes as his trustees should approve. The following tentative scheme has been approved by the trustees :—

1. The income of the fund shall be devoted for two years alternately to Scholarships in Chemistry and Biology.

2. Each Scholarship shall be tenable for two years.

3. Students who have taken the Degree of B.Sc. in Glasgow University shall be eligible.

4. The appointment shall be made by the Senate on a report as to the merits of the candidate or candidates by the Professor of the subject.

5. The scholar appointed shall devote himself for two years in this University, or for one year in this University and the other in such place as the Senate may approve, to research in the subject in which he has obtained the Scholarship. The holder of the Scholarship in Biology shall have the option of selecting Zoology or Botany as the subject of research.

6. The Senate are not bound to make an appointment unless the candidate is in their opinion qualified.

An appointment to the Scholarship in Chemistry will be made in November, 1892. Candidates are required to give in their names to the Assistant Clerk (Matriculation Office), on or before the 1st October.

*Scholar*—<sup>1</sup>Alexander Galt, B.Sc., 1890.

EGLINTON FELLOWSHIPS. On the death of the Earl of Eglinton, formerly Rector of the University of Glasgow, a committee was formed to collect subscriptions for the purpose of commemorating in a suitable manner his virtues and public services; and, subscriptions

<sup>1</sup>Vacant through lapse of time.

having been received to the amount of £7,000, it was resolved by the subscribers, in 1862, to set apart £4,500 out of this sum as a Scholarship or Fellowship Fund in the University of Glasgow.

By the Trust Deed of date November 8th, 1865, the net yearly produce of the said sum (after deducting expenses) is to be appropriated to the support of one or more Fellowships, not exceeding three, to be competed for by the alumni of the College of Glasgow, and to be held for a period not exceeding four years, upon the following conditions, viz.: First,—The number of Fellowships, and the period during which the same are to be held, shall from time to time be fixed by the Senatus Academicus of the said University. Secondly,—The competition for the Fellowships shall be open only to deserving students who shall have taken the Degree of Master of Arts in that University at the term preceding the competition,<sup>1</sup> and the Fellowships shall be awarded by the Senatus Academicus of the University to those students who have shown themselves in a public competition to have acquired the greatest amount of knowledge and proficiency in the branches of study embraced in the curriculum of Arts, and such branches of Natural Science as the Senate shall, from time to time, require. And, Thirdly,—The Examination for the Fellowships shall be under the direction of the Senatus Academicus of the University, who shall fix the subjects of examination, and the relative value of each subject in the competition, and appoint any of their own number, or other fit persons, to be Examinators, and make such regulations with relation to the said Fellowships, and the competition and examination therefor, as from time to time they may think fit.

The following are the regulations of the Eglinton Fellowships:—

1. The number of the Eglinton Fellowships shall be two (of about £100 per annum each), tenable for three years, subject to the approval of the Senate at the end of the first and second year.

2. The competition for the Fellowship shall be open only to deserving students who shall have taken the Degree of Master of Arts in the University of Glasgow, at the term preceding the competition.<sup>1</sup> In the event of a candidate being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

3. One of the Fellowships shall be open to competition in October, 1866, and thereafter triennially (1893); and the other in October, 1867, and thereafter triennially (1894).

4. The successful candidate shall undertake, during his tenure of

<sup>1</sup> i.e., Either at the ordinary Graduation in May or at the Supplementary Graduation in November.

the Fellowship, to follow such a course of study in the University, or to give such assistance in the teaching work of the University, as the Senate may determine.

5. The Examination for the Eglinton Fellowship to be competed for in October, 1890, and thereafter sexennially, shall be in Classics ; and the Examination for the Eglinton Fellowship to be competed for in 1893 and thereafter sexennially, shall be in Mental Philosophy.

The subjects of examination in Classics and Mental Philosophy respectively shall be the same as those for the Degree of Master of Arts with Honours.

6. The subjects of examination for the Eglinton Fellowship to be competed for in October, 1888, and thereafter triennially, shall be the subject of examination for the Degree of Master of Arts with Honours in Mathematics and Natural Philosophy.

7. The Eglinton Fellowship shall not be held along with the Snell Scholarship, or Breadalbane Scholarship, and the holder of the Luke Fellowship or of the Metcalfe Fellowship shall not be admitted to compete for the Eglinton Fellowship.

The next ordinary competition will take place in October, 1893, the subject of examination being Mental Philosophy.

Candidates are required to give in their names to the Assistant Clerk (Matriculation Office) on or before 1st October.

*Fellows*—James P. Wilson, M.A., 1891 (two years); Horatio S. Carslaw, M.A., 1891.

**WILLIAM EUING FELLOWSHIPS.**—Founded in 1874 by Mr William Euing, insurance broker, Glasgow, who by his Will bequeathed to the University, along with a library of rare and valuable books, the sum of £6,000 for the endowment of three Fellowships, each of the value of £80 per annum, and tenable for not more than five years. The Fellowships are open only to deserving students who have completed the regular curriculum in Arts, and taken the Degree of M.A. at this University, and are awarded after competition in the subjects of the Arts curriculum. The Fellows are required to reside in Glasgow for at least nine months in the year, and “to open private classes, of limited numbers, for giving instruction to, and aiding students of the University—more especially during the vacation, or such part thereof as may be found expedient—in such studies as may be auxiliary to, or illustrative of, the course of lectures which such students may have attended, or be desirous of attending, and also to carry out the same purpose by a systematic course of private tuition.”

One fellowship is attached to the department of Classics, one to the department of Mathematics and Natural Philosophy, and one to the department of Mental Philosophy, including Logic, Moral Philosophy, and English Literature.

The Senate have issued the following regulations for the competition of these Fellowships :—

1. In the department of Classics there shall be one Fellowship competed for in October, 1875, and thereafter at intervals of four years (1895), the period for which the Classical Fellowship shall be ordinarily tenable.

2. In the department of Mental Philosophy one Fellowship shall be competed for in October, 1876, and thereafter at intervals of three years (1894), the period for which the Fellowship in the department of Mental Philosophy shall be ordinarily tenable.

3. In the department of Mathematics and Natural Philosophy one Fellowship shall be competed for in October, 1875, and a Fellow appointed for two years ; the Mathematical Fellowship becoming vacant in October, 1877, shall be filled up for a period of three years (1892), the period for which the Fellowship in this department shall be ordinarily held.

In the event of a candidate being appointed to a vacancy to be filled for less than four years in the department of Classics, or for less than three years in the department of Mental Philosophy, or of Mathematics and Natural Philosophy, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than four years in all, or three years in all, respectively.

A Fellowship in Mathematics and Natural Philosophy will be open to competition in October, 1892.

Names of candidates to be given in to the Assistant Clerk (Matriculation Office) on 1st October.

*Fellows* <sup>1</sup> Gilbert Buchanan, M.A., 1890 (1889) (Mathematics); John H. Pagan, M.A., 1891 (Classics); James R. Cameron, M.A., 1891 (Mental Philosophy).

FERGUSON SCHOLARSHIPS.—With a view to the encouragement of the higher learning in Scotland, the trustees of the late Mr. Ferguson, of Cairnbrock, out of his legacy of £50,000 for educational and other purposes, instituted in 1860 six Scholarships, each of the value of £80 per annum, to be held for two years, and to be called “The Ferguson Scholarships.”

The examination of candidates for three of these Scholarships will be held in Glasgow, on Tuesday, 27th September next, and following day. One of the Scholarships will be awarded for the greatest proficiency in Classics; one for the greatest proficiency in Mathematics, including Natural Philosophy; and one for the greatest

<sup>1</sup> Vacant through lapse of time.

proficiency in Mental Philosophy, including Logic, Metaphysics, and Ethics.

Subjects for examination—

**CLASSICAL SCHOLARSHIP.**—*Latin*—Plautus, *Mostellaria*, *Menaechmi*. Virgil, *Elegies* and *Aeneid*, Books I.-III. Horace, *Odes*, *Epistles*. Cicero, *Ad Atticum*, IV.-VII., *Ad Fam.* II., VIII. Tacitus, *Histories*. Pliny, *Epistles*. Translations from Authors not prescribed. Latin Prose Composition.

**Greek.**—Homer, *Iliad*, Books XVIII.-XXIV. Aeschylus, *Agamemnon*, *Choephoroe*, *Eumenides*. Alcaeus, Sappho, Simonides of Ceos, *the fragments of*. Herodotus, Books I.-III. Thucydides, Books III., IV. Aristotle, *De Re Publica Atheniensium*. Translations from Authors not prescribed. Greek Prose Composition.

Questions on Greek and Roman History, Literature, Language, and Antiquities. The Questions will bear chiefly on the books prescribed.

**MATHEMATICAL SCHOLARSHIP.**—*Mathematics*. Euclid's Elements. Modern Geometry. Algebra, including Determinants, Finite Differences, and Theory of Equations. Trigonometry, Plane and Spherical. Analytical Geometry, in two and three dimensions. Differential and Integral Calculus, and Differential Equations.

**Natural Philosophy.**—Abstract Dynamics (commonly called Mechanics), including Kinematics and Statics and Kinetics of Solids and Fluids. Experimental Physics and Applied Mathematics, including all the ordinary subjects treated in Lectures on Natural Philosophy.

**PHILOSOPHICAL SCHOLARSHIP.**—*Logic*.—Province and History of Logic. Logical Forms of Notions, of Judgments, and of Inferences. Fallacies and their Causes. Evidence. Authority and Historical Proof. Physical Science and its Methods. Recent discussions affecting Logic.

**Metaphysics.**—Psychology and Ontology. Nature, Origin, and Limits of Man's Knowledge of Self, the Material World, and God. History and Critical Analysis of Ancient and Modern Metaphysical Systems.

**Moral Philosophy.**—Psychology and Metaphysic of Ethics. Moral Faculty, Motives, and Will. Moral Government of the World and cognate Questions. Applied Ethics, including relations of Ethics to Law and Polities. History and Critical Analysis of Ancient and Modern Ethical Theories.

The competition will be open to all persons who have passed the last of the Examinations required for the Degree of Master of Arts in one of the Universities of Scotland (whether taking the degree at the same time or not) within two years immediately preceding, and who have not already gained one of these Scholarships or competed more than once previously for any of them.

The Examinations will be conducted in writing, and the Scholarships awarded on the report of the Examiners as to the merit of the Candidates, but the minimum of 600 out of 1,000 marks must be reached in order to entitle to a Scholarship.

The Scholarships, of £80 each per annum, are tenable for two years, subject to fulfilment of the following rule of the trustees :—

" Persons gaining the Scholarships will, during the tenure thereof, be expected to prosecute studies in furtherance of "the higher learning; and those who have not graduated shall "be required to do so before the last payment is made. Any "case of conduct unbecoming a scholar and a gentleman shall "incur forfeiture of the Scholarship, of which the trustees shall "be sole judges."

Certificates will be granted to such of the unsuccessful competitors as, in the opinion of the Examiners, shall have taken a distinguished position in the Examinations.

Candidates are requested to give in their names, personally or by letter, at the Office of THE FERGUSON BEQUEST FUND, 94 Bath Street, Glasgow, not later than 31st August, 1892, and due intimation will be sent to those enrolled as to the place and hours of Examination.

The following Students of the University of Glasgow have obtained Ferguson Scholarships :—

1868, James Smith, Mathematical ; 1869, Archibald B. Cameron, Philosophical ; 1870, John Cross, Classical ; 1870, James Orr, Philosophical ; 1872, Wm. W. Waddell, Classical ; 1873, Thomas H. Millar, Mathematical ; 1874, William Patrick, Philosophical ; 1875, William Y. King, Classical ; 1878, John M'A. Dodds, Mathematical ; 1878, Thomas B. Kilpatrick, Philosophical ; 1882, Robert F. Muirhead, Mathematical ; 1883, James A. McCallum, Philosophical ; 1886, James Buchanan, Mathematical ; 1886, Andrew F. Smith, Philosophical ; 1888, Ernest F. Scott, Classical ; 1889, Evan Keri Evans, M.A., Philosophical ; 1890, Abraham Levine, M.A., Mathematical ; 1891, James Holm, M.A., Mathematical.

*Present Holders of the Scholarships.*—Patrick Duncan, M.A., of Edinburgh University, Classics, 1890 ; Abraham Levine, M.A., of Glasgow University, Mathematics, 1890 ; Charles M. Douglas, M.A., of Edinburgh University, Mental Philosophy, 1890 ; William Menzies, of St. Andrew's University, Classics, 1891 ; James Holm, M.A., of Glasgow University, Mathematics, 1891 ; Henry Barker, M.A., of Edinburgh University, Mental Philosophy, 1891.

**FOULIS MEMORIAL SCHOLARSHIP.**—This Scholarship was founded in 1882 in memory of the late David Foulis, M.D., Glasgow, who had distinguished himself in Pathology and Surgery, and died at the age of 35 years. It is to be awarded as often as the accumulated

income from the invested funds amounts to £50. The next appointment will not take place until September, 1892. It is tenable by a graduate or licentiate whose professional education has, to the extent of not less than two years, been received at the University or one of the extra-mural schools of Glasgow ; and who shall, in the opinion of the trustees, have manifested a capacity for original work in the department of Pathology. The purpose of the Scholarship is to assist in the prosecution of such work in one of the Medical Schools in or furth of Scotland, approved of by the trustees ; and the trustees have power to determine whether it should be awarded by competition or otherwise.

The trustees are the Professor of Practice of Medicine in the University, the President and Visitor of the Faculty of Physicians and Surgeons of Glasgow, and the Pathologists of the Western and Royal Infirmarys. Secretary, Alexander Foulis, Esq., 180 St. Vincent Street, to whom applications should be sent on or before 1st September.

*Scholar*—Landel Rose Oswald, M.B., C.M., 1890.

INTERNATIONAL EXHIBITION SCHOLARSHIPS.—Her Majesty's Commissioners for the International Exhibition have instituted Science Scholarships, each of the annual value of £150, and tenable for two years, subject to the scholar's first year's work being deemed satisfactory by the Scientific Committee of the Commissioners. The nomination to a Scholarship was placed at the disposal of this University in 1891, to another in 1892, and it is anticipated that similar arrangements will be made in future years.

Candidates must be British subjects, and must have been students of Science in some approved institution or institutions for a period of three years, at least the third year of the period having been spent in this University. Capacity for original research tending to advance Science or its applications is required as one of the main qualifications. The Scholarships may be held at any University in England or abroad, or in some other institution approved of by the Commissioners. A scholar is expected to spend at least one year of the term at an institution other than that by which he is nominated. He must devote himself to some particular scientific work in connection with those branches of Science, such as Physics, Mechanics, and Chemistry, the extension of which is especially important to our national industries.

When a nomination falls to be made in any year, due notice will be given to enable candidates to lodge their applications with the Clerk of Senate before the beginning of April. Every application must be accompanied by a statement of the scientific study (including original research) in which the candidate has been engaged, and of the work to which he proposes to devote himself if appointed to the Scholarship.

*Scholars*—James H. Gray, B.Sc., 1891 ; James B. Henderson, B.Sc., 1892.

LLOYD'S REGISTER SCHOLARSHIP.—The general Committee of Lloyd's Register of British and Foreign Shipping have intimated their intention of establishing a Scholarship of the yearly value of £50, tenable for three years by students of Naval Architecture in this University. They are open to competition to candidates whose age does not exceed 23 years. Each candidate must produce satisfactory evidence that £50 a year would enable him to pursue his studies, and that he would be unable to do so unless this aid were afforded. The subjects of examination are the following :—Euclid, Books I. II. III. IV. VI. and XI. ; Algebra, including Quadratic Equations, the three Progressions, and Binomial Theorem ; Plane Trigonometry, with use of Logarithms ; Elements of Statics, Dynamics, and Hydrostatics ; Practical Shipbuilding ; Mechanical Problems. A preference will be given to a candidate who possesses a thorough grammatical knowledge of English and of either French or German, although he may be somewhat deficient in the other subjects prescribed.

*Scholar*<sup>—1</sup> William Sharpe, 1889.

LUKE FELLOWSHIP.—In 1863, the late William Luke, Esq., of Edinburgh, bequeathed to the University of Glasgow the sum of £3,000 sterling, “to perpetuate the memory of his nephew George Rankin Luke” (formerly a highly distinguished student of this University, and afterwards student of Christ Church, Oxford), “in such a manner as his esteemed friend, Professor Nichol, may consider most beneficial.” Professor Nichol exercised the discretionary power thus conferred on him by directing that the sum bequeathed should be applied to the founding of a Luke Fellowship. The following are the regulations :—

1. There shall be a single Luke Fellowship (of about £110 per annum), tenable for three years, subject to the approval of the Senate at the end of the first and second years.
2. The Luke Fellowship shall be awarded on examination on English Literature, and on prescribed periods in History.
3. The successful competitor shall be bound to give such assistance in the teaching of the class of English Literature as the Senate may in each case prescribe.
4. The Luke Fellowship shall be open to competition in October, 1868, and thereafter triennially (1892). In the next examination the following papers will be set :—1. On English Literature from the time of Chaucer (inclusive). 2. On the works of Shakespeare. 3. On English History from 1603 to 1688. 4. On Greek History during the age of Pericles. Papers 3 and 4 are alternatives, but candidates will not be precluded from taking both.

<sup>1</sup> Vacant through lapse of time.

5. Competitors for the Luke Fellowship must be Masters of Arts of this University, of not more than three years' standing, provided always that students graduating at the supplementary graduation in November of any year shall, for all purposes, be held to have graduated at the ordinary graduation in the May immediately preceding.

6. The Luke Fellowship shall not be held along with the Snell Scholarship, the Clark Scholarship, the Eglinton Fellowship, or the Euing Fellowship.

7. Students who have competed at one Luke Fellowship Examination shall not be admitted to another, nor shall the holder of the Eglinton Fellowship; but in the event of a candidate's being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the Luke Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

The Luke Fellowship will be open to competition in October, 1892.

*Fellow*—<sup>1</sup>William Thomson, M.A., 1889.

MACKAY SMITH SCHOLARSHIPS.—One in Natural Philosophy, the other in Chemistry, each of the annual value of £48, and tenable for two years in the Universities of Edinburgh and Glasgow alternately. During sessions 1882-83 and 1883-84 they were held in the University of Edinburgh, and during sessions 1884-85 and 1885-86 in the University of Glasgow. The next examination will be held in this University at the close of session 1892-93. Candidates must have already attended, or must be then attending the class of Natural Philosophy or Chemistry respectively. The examination in Chemistry will be held along with the examinations for the Degree of B.Sc. (new regulations), and the examination in Natural Philosophy along with the examinations for M.A.

METCALFE FELLOWSHIP. Founded by the late Miss Sarah Metcalfe, Glasgow. (See under Metcalfe Bursaries, p. 209.)

The following are the regulations of the Metcalfe Fellowship:

1. There shall be a Fellowship on the Metcalfe Foundation of the annual value of £100, tenable for three years, to be competed for in October, 1872, and thereafter triennially (1893).

2. Candidates must be Masters of Arts with Honours in the department of Mathematics and Natural Philosophy, of not more than three years' standing, provided always that students graduating at the supplementary graduation in November of any year shall for all purposes be held to have graduated at the ordinary graduation in the May immediately preceding.

Vacant through lapse of time.

3. The examination shall be the examination for the Degree of Master of Arts with Honours in the department of Mathematics and Natural Philosophy.

4. The Fellowship shall be held subject to the condition of pursuing a course of study in such of the following subjects—viz., Higher Mathematics, Practical Astronomy, Civil Engineering, and Chemistry—as the Senate shall in each case prescribe.

5. The Metcalfe Fellowship shall not be held along with the Eglinton Fellowship, the Snell Scholarship, or the Breadalbane Scholarship; and the holder of the Eglinton Fellowship shall not be allowed to compete for the Metcalfe Fellowship; but in the event of a candidate being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

The next competition will take place in October, 1893.

**SANDFORD SCHOLARSHIP.**—Founded in 1862 (by the investment of a sum of £520, raised by subscription), in memory of Sir Daniel K. Sandford, the eminent Professor of Greek in this University, who died in 1838. It is tenable for two years, and is awarded to the student who, on examination, gives proof of the greatest proficiency in the Greek language. Value about £20 per annum.

The examination of candidates for this Scholarship takes place every alternate year in the month of April (1893), and is open to all matriculated students (not Masters of Arts), who have attended the Public Greek Classes for not less than two sessions.

The subjects of examination are selected from the following authors:—Homer, 12 books; Herodotus, 4 books; Sophocles, 3 plays; Thucydides, 4 books; Æschylus, 3 plays; Demosthenes, one or more orations; Aristophanes, 3 plays; Xenophon's *Memorabilia*; Pindar; Plato, one or more dialogues.

Candidates are examined on not more than four of the above-mentioned authors (of which Homer is always one)—two in prose and two in verse; and the subjects for each examination are given out by the examiners at the end of the session previous to that in which the examination takes place. Candidates are also examined on Translations from Greek into English, with Criticisms, and Translations, in prose and verse, from English into Greek.

Subjects for April, 1893—Homer, *Odyssey*, i.-xii.; Æschylus, *Oresteia*; Plato, *Phaedo*; Herodotus, Books vi.-ix.

*Scholar*—Edward H. Wallace, 1891.

**SCOTT SCHOLARSHIP**—(See under head “Scott Bursaries,” p. 218).—This Scholarship, in value £80 per annum, is open for competi-

tion to Masters of Arts in the University of Glasgow of not more than three years' standing, having graduated with Honours in Classics or in Mental Philosophy, or to students who, at the time of competition, are presenting themselves for the final examination in the said University for the M.A. Degree with Honours in Classics or in Mental Philosophy. The examination to be in Classics, Mental Philosophy, and English Literature, which may include History. The Scholarship is tenable for two years, and the holder is required to follow such a course of study in the University of Glasgow, or give such assistance in the teaching work of the University as the *Senatus Academicus* may determine. The Scott Scholarship is not to be held along with any other Scholarship, Fellowship, or Bursary of the University of Glasgow. "The subjects of examination for the said Scholarship shall be, with the addition after-mentioned, Classics, or Mental Philosophy, or both of these, the special subjects being those for the examination for the M.A. degree with Honours in the given department or departments for the year, and in addition to the examination above mentioned the competitors for the said Scholarship shall undergo an examination in English Literature of a higher kind than that required for an ordinary pass in Mental Philosophy." The Scholarship will be open to competition in October, 1892. The examination will be in Mental Philosophy and English Literature.

*Scholar*—<sup>1</sup> Nicholas Maenicol, 1890.

**SHAW PHILOSOPHICAL FELLOWSHIP.** This Fellowship was founded by subscription in 1867, in the University of Edinburgh, in memory of Sir J. Shaw, Bart., who was born at Mosshead, in the Parish of Riccarton, and County of Ayr, in 1761, was elected Lord Mayor of London in 1805, and M.P. for the same city in 1806, and after a long and distinguished career, died in London in 1843; and is open to the competition of the Graduates in Arts of any of the Scottish Universities. The Fellowship consists of the free proceeds of the sum of £1,100 mortified to the *Senatus Academicus* of the University of Edinburgh under the following conditions, namely :

1. The said Fellowship shall bear the name of "THE SHAW PHILOSOPHICAL FELLOWSHIP," in memory of the said Sir James Shaw, Baronet.

2. The Patronage of the said Shaw Philosophical Fellowship shall belong to the said *Senatus Academicus*, and shall be exercised by them, subject to the conditions herein contained, for the encouragement of the study of Logic, Metaphysics, including Psychology, Moral Philosophy, and the History of Philosophy.

3. The Fellowship shall be awarded by competitive examination in the subjects of Logic, Metaphysics, including Psychology, Moral Philosophy, and the History of Philosophy.

Vacant through lapse of time.

4. The Fellowship shall, on each occasion of an appointment thereto, be open to the competition of Graduates in Arts of the Scottish Universities—that is to say, the University of Edinburgh, the University of Glasgow, the University of Aberdeen, and the University of St. Andrews, of not more than five years' standing at the time of the competition, and of all students of the said Scottish Universities who, although they have not graduated in Arts, shall yet have successfully passed the last of the examinations necessary for such graduation in Arts, within the period of five years before the time of the competition; and the said Senatus of the University of Edinburgh, with consent of the Senates of the other Scottish Universities aforesaid, or of a majority of them, and with the concurrence of the University Court of the University of Edinburgh, shall have power either to increase or to reduce the number of years of standing as graduates, or as students who have passed all the examinations necessary for graduation, as above fixed, for competitors for the Fellowship.

5. The Fellowship shall be tenable for five years only, but the said Senatus Academicus of the University of Edinburgh shall have power, with consent of the Senates of the other Scottish Universities aforesaid, or of a majority of them, and with the concurrence of the University Court of the said University of Edinburgh, to extend, with reference to all holders of the Fellowship, the term of tenure to any period of years not exceeding ten, if, in the course of time, it shall appear to them desirable to do so, from an increase in the number of foundations of a similar kind in the University of Edinburgh, or in the other Scottish Universities, or other sufficient reason.

6. The competitive examination for the said Fellowship, shall, except in the case below provided for, be conducted by two Examiners, to be appointed in the manner following—to wit, one of the Examiners shall be appointed by the Senatus Academicus of the University of Edinburgh, either from among the members of the said Senatus or others, as they may think proper, and the other Examiner shall be appointed by the Senatus Academicus of one of the other Scottish Universities in rotation.

7. The said Examiners, so appointed, shall report their opinion of the result of the examination to the Senatus Academicus of the University of Edinburgh, who shall, as Patrons of the said Fellowship, appoint thereto the candidate who appears by the report to be best qualified by proficiency in the subjects of Logic, Metaphysics, including Psychology, Moral Philosophy, and the History of Philosophy, provided that, as required by the clause next following, such best qualified candidate shall, in the opinion of both the Examiners, have manifested a sufficiently high degree of proficiency to merit the Fellowship.

9. Each holder of the said Fellowship shall, during his tenure thereof, be entitled to receive the annual proceeds of Four Thousand

One Hundred Pounds, and of any addition of the said sum which may hereafter be made thereto, as after-mentioned, after deducting all reasonable expenses, including the payment of remuneration to the Examiners appointed as aforesaid.

12. It shall not be competent for any person to hold the said Fellowship along with any other Fellowship, Scholarship, or Bursary, in any Scottish University, or appropriated to the students of any Scottish University or Universities.

17. It shall be in the power of the Senatus Academicus of the University of Edinburgh to require the holder of the Shaw Philosophical Fellowship during the fourth or fifth year of his tenure of it, to deliver in the University of Edinburgh a Course of Lectures, not exceeding four, on any of the subjects for the encouragement of the study of which the Fellowship has been founded; and notice shall be given to the holder of the Fellowship twelve months previously to the time fixed for the delivery of the said Lectures that he is required to deliver them: but the said Senatus, with consent of the University Court of the University of Edinburgh, shall have power to alter the number of Lectures, if it shall be found desirable to do so.

*Fellow*—William Caldwell, M.A. (of Edinburgh University), 1888.

**SNELL EXHIBITIONS.** In the year 1677, Mr. John Snell of Uffeton, in the County of Warwick, a native of Scotland, and formerly student in this University, devised to trustees a considerable estate near Leamington, in Warwickshire, for educating Scottish students at Oxford.

The Exhibitioners are now elected under a scheme settled in the Court of Chancery in 1872. Under the provisions of this scheme it was then arranged that the number of Exhibitioners should be limited to fourteen, it being lawful to elect three in each year, unless the number on the Foundation should thereby be increased beyond fourteen, in which case not more than two were to be elected, the Exhibition being tenable for five years: but by an agreement of date 2nd April, 1878, under provisions of the same scheme, the following regulations were sanctioned:—

1. The stipend of each Exhibitioner admitted to the foundation after the 31st day of December, 1878, shall be £132.

2. Until the 31st day of December, 1880, the greatest number of Exhibitioners shall be twelve.

3. During the year from the 31st day of December, 1880, to the 31st day of December, 1881, the greatest number of Exhibitioners shall be eleven.

After the 31st day of December, 1881, the greatest number of Exhibitioners shall be ten.

The number of ordinary Exhibitioners it shall be lawful to elect

in each year shall be three, unless the number on the foundation for the time being would be thereby increased beyond the greatest number for the time being permitted by this agreement, in which case not more than two shall be elected.

By a subsequent agreement of date 21st January, 1886, the following modifications were made:—

1. The value of the Snell Exhibitions shall be reduced to £80 a year.

2. They shall be held, as heretofore, for five years, but the whole sum of £400 will be paid to each Exhibitioner during the first three years of his tenure in equal annual sums, but a moiety of the last annual payment shall be kept back, if the authorities of Balliol College think fit, until the Exhibitioner shall have taken his Degree.

Candidates must have been born in Scotland, or must be sons of fathers born in Scotland, and must "have resided" as Under-graduate Students for two years at least in Glasgow College, or for one year in that College and two at least in some other College in Scotland." "No candidate shall be admitted to examination who shall be a member of the University of Oxford of more than one year's standing from the day of his matriculation inclusive; and no candidate shall be admitted to examination more than once after he shall have completed his 23rd year; but a candidate otherwise qualified shall not be excluded from examination on the ground that he is a graduate of any Scotch University."

Candidates are expected to inscribe their names in a book kept at the Clerk of Senate's Office for the purpose, not later than 1st December, 1892. The next examination will be held in April, 1893, on the same days and at the same hours as the Examinations for the Degree of M.A. with honours, the English paper being taken on Saturday, 8th April, at 10 A.M.

The subjects of examination are as follows:—

**IN LATIN, GREEK, LOGIC, AND MORAL PHILOSOPHY.**—The subjects of examination for the Degree of M.A., with Honours.

**IN NATURAL PHILOSOPHY AND MATHEMATICS.**—The subjects of examination for the Ordinary Degree of M.A., and higher subjects which any candidate may express a wish to be examined in.

Candidates are requested to take notice that they are not required to attend the examination in more than one of the three departments of the examination, viz.: Classics, Mental Philosophy, Mathematics; that a candidate may be appointed for decided excellence in any one department alone; and if such excellence in some one of the departments be not displayed by three of the

<sup>1</sup> By Resolution of date December 13th, 1866, the Senate determined that "Residence" shall, for the purpose of the Snell Trust, be constituted by regular attendance as a public student for the complete Winter Session on not less than two of the classes in the curriculum for the Degree of Arts.

candidates, the Senate will either appoint a candidate who has shown sufficient proficiency in several departments, or will abstain from making three appointments. All candidates, however, will be required to write an English Essay on a subject prescribed at the time.

*Exhibitioners*—Ernest F. Scott, 1888; Hugh Macpherson, 1889; John E. McFadyen, 1890; George D. Brown, 1891.

THOMSON EXPERIMENTAL SCHOLARSHIPS.—Three Scholarships, in value about £20 each, for the promotion of Experimental Research, founded by Sir William Thomson (now Lord Kelvin), LL.D., D.C.L., Professor of Natural Philosophy in the University, by letter to the Principal, of date September 6th, 1869, in which, after referring to "the liberal and friendly spirit which had been shown him by his colleagues in respect to his connection with telegraphic enterprise," and the "facilities for experimenting which the College had afforded him," he states that "he wished to mark his sense of these benefits by setting aside something of what he had received to assist in promoting the cultivation of experimental investigation in Glasgow University," and for this purpose offered for the acceptance of the Senate the sum of £1,000.

The scholars are appointed by the Senate on the recommendation of the Professor of Natural Philosophy from among students who have previously shown their zeal and ability in Experimental Investigations in the Physical Laboratory, and they are required to engage in the continual prosecution of Experimental Investigations in the Laboratory for not less than nine months of the year, to the satisfaction of the Professor of Natural Philosophy. These Scholarships may be held along with any other Bursary, Scholarship, or Fellowship.

*Scholars for 1892*—Evan Parry, William R. Wilson, George E. Allan.

## 3.—PRIZES.

Besides the class Prizes, and a number of Prizes given by the different Professors for particular kinds of merit, there are others which the generosity of public spirited individuals has founded for the encouragement of learning in the University.

The names of the Prizemen for Session 1891-92 will be found in the Degree and Prize List.

## INDEX.

FOUNDATION.	NATURE OF PRIZE.	AWARDED FOR
Arnott, - - - - -	£25 and £15,	Examinations.
Brunton Memorial, - - - - -	£10,	Do.
Buchanan (3), - - - - -	Books,	Do.
Cleland, - - - - -	Gold Medal,	Essay.
Coulter, - - - - -	Two at £5 each,	Essays.
Cowan (3), - - - - -	Gold Medals,	Examinations.
Cunningham, - - - - -	Gold Medal,	Do.
Dobbie-Smith, - - - - -	Gold Medal (biennial),	Essay.
Dowanhill, - - - - -	£21 and £10 10s.,	Elocution.
Ewing, - - - - -	Gold Medal (biennial),	Essay.
Findlater, - - - - -	£38,	Examination.
Gartmore, - - - - -	Gold Medal (biennial),	Essay.
Gladstone Historical, - - - - -	£21 (biennial),	Examination.
Harvey, George, - - - - -	£20,	Do.
Henderson, - - - - -	£21,	Essay.
Jamieson, - - - - -	£10,	Examination.
Jeffrey, - - - - -	Gold Medal,	Do.
Thomas Logan Memorial	Do. and £12,	Do.
Luke Historical, - - - - -	£10 (biennial),	Do.
Macfarlan and Cook, - - - - -	£21,	Do.
Muirhead, - - - - -	Books,	Do.
Rae Wilson, - - - - -	Gold Medal,	Essay.
Reid, John, - - - - -	£25,	Original Research.
Ross, Robert (2), - - - - -	Med., books, or money,	Examinations.
Scott-Macfarlan, - - - - -	Gold Medal,	Examination.
University, - - - - -	Silver Medal,	Essay.
Walker (4), - - - - -	Books, &c.,	Examinations.
Watt, - - - - -	£10,	Essay.

**ARNOTT PRIZES.**—Founded in 1869, by Dr. Neil Arnott, of London, who presented to the Senate the sum of £1,000 to found a Prize, or Prizes, for the encouragement of the study of Natural Philosophy among the Medical students of the University.

By resolution of the Senate, of date April 10, 1873, the following regulations were adopted:—

1. That there shall be two separate examinations—one in General Physics, for students of the first and second years of their Medical

studies ; the other for students of the third and fourth years, in Physiological Physics, or the application of the doctrine of General Physics to Physiological Science.

2. That the knowledge required for the second of these examinations being much more extensive, and of a much higher order than that required for the first, and being the kind of knowledge of which it is most important to encourage the cultivation, as not only useful in the practice of the Medical Art, but eminently fitted to advance the Physiological Sciences ; that a sum of not less than Twenty-five pounds be offered annually, in one or several sums, as circumstances may require, to the student or students who excel in the second examination.

3. That the remaining portion of the revenue derived annually from Dr. Arnott's donation be offered in the same way to the student or students who excel in the first examination.

4. That the first examination be under the superintendence of the Faculty of Arts, with the Professors of Physiology and of Anatomy as Assessors.

5. That the second examination shall be under the superintendence of the Medical Faculty, with the Professors of Natural Philosophy and of Mathematics as Assessors.

6. That all candidates shall, at the commencement of each session, intimate their intention to the Assistant Clerk (Matriculation Office) ; and that, to prevent unqualified persons from coming forward, each candidate shall produce satisfactory evidence of his having attended a Course of Lectures on Natural Philosophy, or of having been a pupil in a Laboratory where Practical Physics or Practical Physiology is taught ; or, failing of these qualifications, he shall deposit the sum of ten shillings, which shall be forfeited if his examination marks fall below the average standard.

7. That every candidate who passes creditably the first examination shall be thereby entitled to come forward for the second, without being obliged to deposit the sum of ten shillings.

8. That no prize shall be awarded without sufficient merit being shown, and that in the event of one or more of the prizes on any occasion not being awarded, the amount shall be added to the principal sum.

The examination will be in writing, and will be held on Saturday, the 29th October, 1892, in the Examination Hall, at 2 p.m. Intending candidates to give in their names to the Assistant Clerk (Matriculation Office) on or before 1st October.

BRUNTON MEMORIAL PRIZE.—Founded in 1879, in memory of the late Duncan M. Brunton, M.A., M.B., Paisley, a distinguished graduate of this University, who died on 16th November, 1876, of fever, contracted in the diligent discharge of his professional duties in the Royal Infirmary of Paisley. The Committee of Subscribers

paid over to the Senate the sum of £300, the interest of which is to be given annually to the most distinguished graduate in Medicine of the year.

**BUCHANAN PRIZES.**—A Bursary was founded in 1866, in recognition of the eminent services of Robert Buchanan, LL.D., as Professor of Logic and Rhetoric in the University during the long period of forty years. The fund consists of a sum of £314 raised by subscription. The Buchanan Bursaries having been founded under the Will of Professor Buchanan, the proceeds of this fund are now, with the sanction of the subscribers, applied to the purchase of books, which are annually awarded to the most distinguished students in the classes of Logic, Moral Philosophy, and English Literature.

**CLELAND GOLD MEDAL**—Dr. James Cleland, Superintendent of Public Works in Glasgow, who died 14th October, 1840, founded a Gold Medal of the value of Ten Guineas, to be bestowed in alternate years on a student of Divinity, and a student of Natural Philosophy, as a prize for the best Essay on any subject to be prescribed by the Principal and Professors of the University.

**COULTER PRIZES.**—In 1787, Mr. James Coulter, merchant in Glasgow, bequeathed £200 to the University, “the annual proceeds to be applied in premiums, one or more, either pecuniary or honorary, for the encouragement of Composition and Elocution, upon subjects of the Faculty's choosing.” The interest of this sum is now divided into Two Prizes of £5 each; the one to be given in alternate years for a Sermon or Theological Essay, and for an Essay on Mental Philosophy and English Literature, the other to be given annually for a translation from some Classical Author, or other composition connected with Classical Literature. The competition for these prizes is open to all students of the University.

**COWAN GOLD MEDALS.**—In 1836, Dr. Cowan of Sunderland presented to the University the sum of £400, the interest to be applied annually in the purchase of Two Gold Medals of the value of about £10 each, to be awarded to the two students who may distinguish themselves most in the Greek and Latin Examination upon the Blackstone; and shortly afterwards (1839) the same gentleman presented the University with an additional sum of £105, the interest to be expended annually in the purchase of a Gold Medal of the value of £5, to be awarded to the best student in the Humanity Class.

The examination for Dr. Cowan's Blackstone Medals will be held early in November, 1892. Competitors to be eligible must be public students in some curriculum class in the Faculty of Arts.

For the Greek Medal—1. A candidate must have received a Certificate in the Greek Class for session 1891-92.

2. Every candidate will be required to answer a Preliminary Paper, consisting of unprepared passages for translation.

3. Two or more candidates, selected by this paper, will on a subsequent day be examined orally in the books which they offer.

4. Each selected candidate must offer for the Oral Examination (i.) one Verse Subject, (ii.) one Prose Subject. (i.) The Verse Subject must be *either* five books of Homer, *or* two Greek plays (tragedies or comedies). (ii.) The Prose Subject may be any *one* of the following :—(a) Herodotus—two books; (b) Thucydides—two books; (c) Plato—two dialogues, or two books of the *Republic*; (d) Aristotle—two books of the *Ethics*, or of the *Politics*, or of the *Rhetoric*.

5. Any member of the Greek Class for session 1892-93 is at liberty to go in for the Preliminary Paper, even though he is not a candidate for the Cowan Medal; and if he acquires himself with distinction in that paper, his name will be mentioned when the award of the Medal is announced.

For the Latin Medal, competitors must in the session preceding the competition have received a public ticket of the Latin Class.

Notice is hereby given, that at the examination for Dr. Cowan's Medals in November, 1892, and thereafter, no one will be admitted to compete for the Greek Cowan Medal who has attended for more than three sessions, or who, after passing the preliminary examination in Greek, has attended for more than two sessions in any Scottish University, and no one shall be admitted to compete for the Latin Cowan Medal who has attended for more than two sessions, or who, having been admitted to the Senior Class in consequence of having passed the preliminary examination in Latin, has attended for more than one session in any Scottish University.

**CUNNINGHAME GOLD MEDAL.**—In 1886, Mr. Andrew Cunninghame, Town Clerk Depute of Glasgow, bequeathed to the University, *inter alia*, £350, free of legacy duty, with directions that the annual revenue thereof should be applied in purchasing a Gold Medal as a prize in the class of Mathematics.

**DOBIE-SMITH GOLD MEDAL.**—In 1881, Mr. Thomas Smith L.R.C.S.E., Heriot Hill House, Edinburgh, presented to the University, in memory of his wife, lately deceased, the sum of £150 for the purpose of founding a University Gold Medal of about £10 in value, to be given biennially for the encouragement of the study of Botany. The competition is open to all Matriculated Students of the session in which the Medal is to be awarded; the subject of competition—which shall always be a Botanical subject—to be selected by the Professors of Botany and Natural History, and announced at least eighteen months before the date fixed for receiving essays.

The subject for the next competition to be an Essay on any subject within the limits of the Science of Botany. The treatment of the subject to show original work, and the essay to be accompanied

by an illustrative series of macroscopic and microscopic specimens. Essays to be given in to the Principal on or before 14th November, 1892.

DOWANHILL PRIZES.—Two prizes, one of £21, and the other of £10 10s., for "Excellence in the Art of Oratory and Declamation, and in the practice of a refined and pleasing Delivery, and in reading the Scriptures," founded in 1865, by Mr. John Buchanan, merchant in Glasgow, as sole Trustee, nominated and appointed by his deceased brother, Mr. Thomas Buchanan, also merchant in Glasgow, and in order to carry out the intentions of his said brother. These prizes are awarded annually to Students of Divinity, at the termination of the third or fourth session of their attendance on the Hall, by the votes of their fellow-students. Competitors must have attended for two sessions an Elocution Class, taught by a master approved by the Senate.<sup>1</sup>

The above foundation is in memory of the late Mr. James Buchanan, of Dowanhill, of Ellison MacCallum, his wife, and of Mr. George Buchanan, of Stanley, Perthshire, the Father, Mother, and elder Brother of the Founder.

EWING GOLD MEDAL.—In 1828, James Ewing, LL.D., of Levenside, presented the University with £100 for a Gold Medal to be given every second year for the best essay on an historical subject. The Gartmore and Ewing Medals are to be given alternately.

FINDLATER (DIVINITY) SCHOLARSHIP OR PRIZE.—This Scholarship, consisting of the free annual proceeds of the sum of £1,000 gifted to the Senate by Mr. Alexander Findlater, Dublin, was founded in 1871. The following regulations were adopted by the Senate, Nov. 30th, 1871, with Modifications on 9th March, 1882, and 20th March, 1884:—

1. The Findlater Scholarship shall be awarded annually by competition.

2. At the competition in November, 1885, and thereafter biennially (1893), the examination shall be in Hebrew, New Testament Exegesis, and Apologetics; at the competition in April, 1885, and thereafter biennially (1893), the examination shall be in Divinity (Biblical and Systematic Theology), Church History, and Biblical Criticism.

3. The subjects of Examination in each of the departments shall be the same as those prescribed for the Degree of B.D.

4. The examination shall be held at the same time as the examination for the Degree of B.D.

5. The competition shall be open to all students of Divinity who shall complete the ordinary course at the close of the session in which the examination is held, or who shall have completed their course at the close of the session immediately preceding.

<sup>1</sup> See Note under Faculty of Theology, *supra*.

The next competition will take place in April, 1893, the examination being in Divinity, Church History, and Biblical Criticism. Names of Candidates to be given in to the Assistant Clerk (Matriculation Office) on or before 24th March, 1893.

**GARTMORE GOLD MEDAL.**—In 1788, Mr. Robert Graham, of Gartmore, presented the University with £100 for the institution of a Prize for the best essay on any subject intimately connected with the nature, foundation, advantages, and support of political liberty. This Prize—a Gold Medal—is open to the competition of all students of the University, and is given biennially. The surpluses to be accumulated till a capital is formed sufficient to found a Bursary.

**GLADSTONE HISTORICAL PRIZE.**—Founded in 1880 by the Gladstone Club, in commemoration of the election in 1877 of the Right Honourable William Ewart Gladstone, M.P., as Lord Rector of Glasgow University, and in recognition of his distinguished career as a scholar, author, statesman, and orator. The following are the regulations:—

1. The prize shall be given for the best examination in English History.
2. The examination shall be held biennially.
3. The value of the Prize shall be Twenty Guineas.
4. The competition shall be open to Graduates of Glasgow University of not more than two years' standing from the date of their first graduation. The sixth competition will take place in January, 1894. Names of competitors to be given in to the Assistant Clerk (Matriculation Office) not later than 1st December, 1893.

**GEORGE HARVEY PRIZE.**—Founded in 1874, by the liberality of a donor who has withheld his name, in memory of the late Mr. George Harvey, of No. 9 Park Quadrant, Glasgow. Annual value, ordinarily £20, which is given as a prize in the class of Civil Engineering, to the student who shows, during the session, the greatest proficiency in the department of applied Mechanics and Shipbuilding. Any accumulation of surplus income to be given as a second prize of £5 or £10 in the same department.

**HENDERSON PRIZE.**—In 1850, Mr. John Henderson, of Park, merchant in Glasgow, instituted an annual prize of the value of £21 sterling, to be called the "Henderson Prize," for the best Essay on some subject relating to the Divine Authority and Practical Value and Influence of the Sabbath.

**JAMIESON PRIZE.**—In 1854 a subscription list was opened for the foundation of a prize or scholarship in Divinity, but the commercial difficulties of the following years prevented the purpose of the promoters being carried out at the time. In 1881 the sum subscribed,

amounting, with accumulated interest, to £319 6s. 4d., was handed over to the University, and the Senate resolved to connect it with the name of the Convener of the Committee of subscribers, the Rev. Robert Jamieson, D.D., formerly minister of St. Paul's Church, Glasgow.

The following regulations were adopted by the Senate, March 9th, 1882, with modifications on March 20th, 1884 :—

1. The Jamieson Prize shall be awarded annually by competition.
2. At the competition in April, 1885, and thereafter biennially (1893), the examination shall be in Divinity, Church History, and Biblical Criticism ; at the competition in November, 1885, and thereafter biennially (1893), the examination shall be in Hebrew, New Testament Exegesis, and Apologetics.
3. The subjects of examination in each of the departments shall be the same as those prescribed for the Degree of B.D.
4. The examination shall be held at the same time as the examination for the Degree of B.D.
5. The competition shall be open to all students of Divinity who shall complete the ordinary course at the close of the session in which the examination is held, or who shall have completed their course at the close of the session immediately preceding.
6. The Prize shall not be awarded to any one who has gained a Scholarship or Fellowship in Divinity.

The next competition will take place in April, 1893, the examination being in Divinity, Church History, and Biblical Criticism. Names of candidates to be given in to the Assistant Clerk (Matriculation Office), on or before 24th March, 1893.

**JEFFREY GOLD MEDAL.**—Mr. Francis Jeffrey, advocate (afterwards Lord Jeffrey), on his re-election as Lord Rector of this University, in 1821, gave a prize of a Gold Medal, and continued to do so annually.

In 1849, Lord Jeffrey presented the University with the sum of £120 for a Gold Medal to be awarded each session to the most distinguished student of the Greek Class.

**THOMAS LOGAN MEMORIAL MEDAL AND PRIZE.**—Mr. David Logan, fruiterer, Glasgow, who died on 19th May, 1886, directed his trustees to pay to the Senate the sum of £500, free of legacy duty, to found a Gold Medal and Prize in memory of his brother, Thomas Logan. The Medal is of the value of £5, and the Prize consists of the balance of the annual proceeds given in money. They are awarded annually in November to the most distinguished graduate in Arts of the year.

**LUKE HISTORICAL PRIZE.**—A sum of £150 was collected in 1863 by various friends of the late Mr. George Rankin Luke, in Oxford and Scotland, for the purpose of founding a prize in his name, in

connection with the University of Glasgow, where he studied during two years of his brilliant career as a scholar.

The Senate, with the sanction of the promoters of this fund, resolved to employ it to found a biennial Prize, for excelling in a competitive examination on general subjects connected with Ancient History and Literature. The examination to be conducted either altogether in writing, or by combination of writing and *viva voce* questions; and the determination to rest with the Professors of Humanity and Greek, in conjunction, in case of uncertainty, with any one of their colleagues whom they may desire to nominate.

The Prize on the above foundation is given to the student who acquires himself best in an examination in Ancient Greek and Roman History.

The next competition will be held in January, 1893. In addition to historical questions, original passages will be given for translation from the standard authors. The competition is open to all students who shall have attended during session 1891-92 any Greek or Latin Class.

Names of Candidates to be given in to the Assistant Clerk (Matriculation Office) on 1st December, 1892.

**MACFARLAN AND COOK TESTIMONIAL PRIZE.**—The Macfarlan and Cook Testimonial Prize of Twenty Guineas, instituted in 1847 (along with a similar Prize in the University of St. Andrews), by the friends of the late Principal Macfarlan, D.D., of this University, and Professor George Cook, D.D., of St. Andrews, as a memorial of the services rendered to the Church of Scotland by these eminent clergymen, is bestowed annually on the Theological Student, of three years' standing, who shall pass the best examination in Greek, Moral Philosophy, Hebrew, Ecclesiastical History, and Divinity.

**MUIRHEAD PRIZES.**—In 1776, Messrs. John Muirhead of Teggots-heugh, and Peter Muirhead, minister of Dysart, brothers of the deceased Mr. George Muirhead, Professor of Humanity in Glasgow College, presented a donation of £100, the interest to be applied in purchase of books to be awarded as prizes to those students attending the Humanity Class who shall be thought most deserving.

**RAE WILSON GOLD MEDAL.** Dr. William Rae Wilson, of Kelvinbank, who died 2nd June, 1849, bequeathed the sum of £300, two-thirds of the interest of which he appointed to be applied annually to the purchase of a Gold Medal to be bestowed upon the Divinity student who shall produce the best Prize Essay on "The Life of our Adorable Redeemer, Jesus Christ : His Righteousness, Atoning Death, and that Everlasting Benefit arising from these blessings to a lost and miserable world."

**JOHN REID PRIZE.**—A Prize of the value of £25 has been founded by Miss Mary Reid, 15 Woodside Quadrant, Glasgow, in memory of

her brother, the late Mr. John Reid, surgeon, 150 Renfrew Street, Glasgow. The prize will be awarded for the best original research conducted in one of the Hospitals or Scientific Laboratories in Glasgow, bearing on any department of Medical Science. Competitors must be registered students of medicine (not in possession of a legal qualification) of not less than two years' standing at the date of application, and they will require to produce evidence of having attended a regular course of instruction, in one of the medical schools of Glasgow, on *four* of the following subjects:—Medicine, Clinical Medicine, Surgery, Clinical Surgery, Materia Medica, Physiology, Pathology—such course of instruction having been received, in whole or in part, within two years of competing for the prize. The prize may be awarded for one, two, or three years, according to the value of the work done. It is open to candidates at the commencement of and during session 1892-93.

Further information may be obtained from Mr. John Hurl, jun., writer, 121 West Regent Street, Glasgow.

ROBERT ROSS PRIZE.—The late Robert Ross, Esq., writer, Glasgow, by his Will, dated 1880, bequeathed to the Dean and Council of the Faculty of Procurators, Glasgow, the sum of £500, to be held by them in trust, “to the end that the free annual income thereof shall be applied as an annual prize in the form of a medal, of books, or of money, as the Dean and Council may determine, to a student in each of the Scots Law Class and the Conveyancing Class of the University of Glasgow in equal proportions, such prize to be awarded for eminence displayed, either in the general business of the class or in any other manner in which the said Dean and Council may prescribe.”

SCOTT-MACFARLAN GOLD MEDAL.—Founded in 1870, by Miss Scott, daughter of the late Rev. Robert Allan Scott, Vicar of Cranwell, Lincolnshire, in fulfilment of her father's intentions.

Mr. Scott, wishing to encourage the study of Greek in the University of Glasgow, of which he was an alumnus, and from which he obtained an Exhibition to Balliol College, Oxford, in 1825, dedicated to that purpose the sum of £100 for a Gold Medal, to be called the “Scott-Macfarlan Prize for Greek,” in memory of Mr. Scott's kinsman, the late Principal Macfarlan, and to be given on the last day of the session in each year to the best scholar in Greek of the session; the medal to be adjudged by the votes of the students of the upper Greek class. As the Jeffrey Medal has long been given to the best student in the senior Greek Class, Miss Scott consented to give the “Scott-Macfarlan” Medal to the best student in the middle class.

UNIVERSITY MEDAL.—The University bestows annually a Silver Medal for an Essay in Mental Philosophy.

WALKER PRIZES.—Four Prizes (consisting of Books or Instruments) to be competed for each year by students of Civil Engineering and Mechanics, founded in 1857 and 1861 by James Walker, Esq., Civil Engineer, LL.D., FR.SS.L. and E.

The competition is open to all persons who shall have duly entered themselves as attending the class of Civil Engineering and Mechanics during the current session.

The competitors are examined orally and in writing ; and two of the prizes are awarded on the results of the written examinations : the other two by votes of the class.

WATT PRIZE. In 1808, James Watt, LL.D., presented the College with a perpetual annuity of £10, for the institution of a prize, to be awarded to the author of the best Essay on some subject in the following branches of study, to be taken in rotation :

1. Any branch of Mechanics or its dependent Arts.
  2. Statics, and the Machines and Arts dependent.
  3. Pneumaties, Statical or Chemical, Machines and Arts.
  4. Hydraulics, Hydrostatics, their Machines and Arts.
  5. Chemistry, its Arts and Apparatus.
- All actual students who have completed, or who, at the end of the session in which the Prize is awarded, shall have completed a regular course of study in Languages and Philosophy, may be competitors.

4.—*LIST OF BURSARIES, &c., OPEN TO COMPETITION DURING SESSION 1892-93.*

A.—FACULTY OF ARTS.

1. BURSARIES.

The greater number of the Faculty of Arts Bursaries in the patronage of the Senate are awarded in accordance with the results of the Annual Bursary Examinations held at the commencement of the Winter Session. The various open Bursaries are awarded, according to their respective values, to those who stand highest in the List published by the Examiners. In the case of Bursaries restricted to the inhabitants of particular localities, the competitors have to undergo the same examination as those competing for open Bursaries, and the Bursaries are awarded to those students among the qualified candidates who pass the best examination. The Faculty of Arts are ready to receive at the same time for examination candidates for any Local Bursaries who may be sent to them.

The Examination for these Bursaries is combined with the Preliminary Examinations in Latin, Greek, and Mathematics, and comprises papers in Latin and Greek Grammar and Syntax, Latin Prose Composition, translations of passages from ordinary Latin and Greek Authors, and Mathematics, together with questions to test general knowledge and facility of composition in English.

The competitors for all Arts Bursaries, for students entering the first or second session, are examined on the same set of papers; but the same standard of excellence is not expected from candidates for Bursaries for which the competition is restricted, as from candidates for open Bursaries; and in the case of Bursaries restricted to particular localities, or particular names or classes, students who show satisfactory knowledge of Latin and Greek Grammar, and of Arithmetic, with the Elements of Mathematics, will be considered to have done well enough to have a Bursary awarded to them.

FOR STUDENTS ENTERING THE FIRST SESSION IN ARTS.

1. *Black Bursary*, annual value £21, tenable for four years—open.
2. *Ebenezer Brown Bursary*, annual value £37, tenable for three years—open.
- 3 and 4. *Two Buchanan Bursaries*, annual value £13, tenable for three years—open.
5. *Crawfurd or Bishop's Bursary*, annual value £12, tenable for four years—open.
6. *Forfar Bursary*, annual value £30, tenable for four years—open.

7. *Foundation Bursary*, annual value £10, tenable for four years—open.

8. *General Council Bursary*, annual value £20, tenable for three years—open.

9. *Scott Bursary*, annual value £25, tenable for four years—open.

10, 11, 12, 13, 14, and 15. *Six John Clark (Mile-end) Bursaries*, annual value £30 each, tenable for four years, for Protestant students, sons of Protestant parents.

16, 17, and 18. *Three Biggart Memorial Bursaries*, annual value £25 each, tenable for four years, for students preparing for the Ministry of the United Presbyterian Church.

19. *Braud Bursary*, annual value about £24, tenable for four years, for students preparing for the Ministry of the United Presbyterian Church.

20. *Brown-Paton Bursary*, annual value about £16, tenable for three years. Preference to natives of Loudon or Galston, whom failing, to natives of any other part of Ayrshire.

21. *Brown (Ayrshire) Bursary*, annual value about £20, tenable for four years, for natives of Ayrshire, or those who have been educated for not less than four years in a school in Ayrshire.

22. *Archibald Craig Bursary*, annual value £9, tenable for two years, for students who are natives of Eaglesham or Mearns, or who for two consecutive years have attended school in either of these parishes.

23. *Denny Bursary*, annual value £30, tenable for four years, for students from Dumbarton Burgh Academy. [Tenable in any Faculty.]

24. *Duncan's Bute Bursary*, annual value £35, tenable for four years, for students from Bute.

25. *James Ewing Bursary*, annual value £20, tenable for four years, for sons of Glasgow merchants. Apply to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of October.

26 and 27. *Two Fullerton of Overton Bursaries*, annual value £20 each, tenable for two years, for students under 25 years of age, from the district of Cunningham, in Ayrshire. Subjects of Examination—Latin, Elementary Mathematics, and English.

28. *Hannay Bursary*, annual value about £15, tenable for three years, for students preparing for the Ministry of any Evangelical Religious Denomination in Scotland. Apply to Robert Brodie, Esq., 77 St. Vincent Street, before the first day of October.

29 and 30. *Two Glasgow City Educational Endowments Bursaries*, annual value £25 each, tenable for four years, for students from public or State-aided schools in Glasgow. Apply to Dr. F. L. Robertson, Hutchesons' Buildings, Ingram Street, before the first day of October.

31, 32, 33, 34, and 35. *Five Hutchesons' Educational Trust Bursaries*, annual value £20 each, tenable for four years, for students who have attended two sessions in the secondary department of Hutchesons' Grammar School. Apply to Dr. F. L. Robertson, Hutchesons' Buildings, Ingram Street, before the first day of October.

36. *Ayrshire Masonic Bursary*, annual value £20, tenable for four or three years, for sons of Ayrshire Freemasons. Apply to Mr. J. M. McCosh, Dalry, Ayrshire, before the first day of October.

37. *Lochhead and Mitchell Bursary*, annual value £32, tenable for four

years. Preference to students of the name of Mitchell or Lochhead, whose parents are members of the Established Church of Scotland.

38, 39, 40, and 41. *Four Marshall Trust Bursaries*, annual value £30 each, tenable for five years, for students from public or State-aided schools in Lanarkshire or Stirlingshire. Apply to William Mitchell, Esq., 134 Wellington Street, Glasgow, before the first day of October.

42, 43, 44, 45, 46, 47, 48, and 49. *Eight Orr Ewing (Dumbartonshire) Bursaries*, annual value £25 each, tenable for four years, open only to candidates under 17 years of age from public or State-aided schools in the County or Presbytery of Dumbarton.

50. *Second Patrick Bursary*, annual value about £40, tenable for two years, for students from Renfrewshire.

51. *Pollock Bursary*, annual value £40, tenable for three years. Preference to candidates educated in Paisley.

52 and 53. *Two Ramsay-Walker Bursaries*, annual value £12 each, tenable for four years, for students preparing for the Ministry of the Established Church of Scotland. Preference to kin of founder; whom failing, to students of name of Walker; whom failing, to natives of Glasgow.

54. *Stevenson of Dalry Bursary*, annual value about £33, tenable for four years, for students preparing for the Ministry of the Church of Scotland. Preference to natives of Dalry in Ayrshire; whom failing, to natives of Bannockburn or St. Ninians in Stirlingshire.

55. *Stewart Bursary*, annual value £15, tenable for four years, for students of the name Stewart or Simpson.

#### FOR STUDENTS ENTERING THE SECOND SESSION IN ARTS.

Nos. 2, 5, 6, 7, 8, 9, 19, 20, 26, 27, 54, 55, in the preceding list.

56. *Park General Council*, annual value £20, tenable for two years—open.

#### FOR STUDENTS ENTERING THE THIRD SESSION IN ARTS.

57. *Lorimer Bursary*, annual value £25, tenable for three years. The examination will take place along with the preliminary examinations in Mathematics for M.A., but may embrace higher papers.

58. *Lorimer Bursary*, annual value £25, tenable for three years. Subjects of Examination—Professor Veitch's *Institutes of Logic, Part I.* (large print only); Descartes (English translation of 1879, or subsequent edition), *Introduction*, Sections I., II., III.; *Discourse on Method*; *Meditations*, I. and II.; Shaw's *English Literature* (Murray's Student's Manual), Chaps. IV., V., VI., VII., XI.; Shakespeare's *Julius Caesar*, as edited by Beeching (Longman's Falcon Series); Zeller's *Socrates and the Socratic Schools* (translated by Reichel), pp. 1-200.

59. *James Thomson Philosophical Bursary*, annual value £34, tenable for two years. The subjects of examination are the same as for the Lorimer Bursary, No. 58.

#### FOR STUDENTS IN ARTS, WITHOUT RESTRICTION TO A PARTICULAR SESSION.

60. *James Ferguson Bursary*, annual value £80, tenable for two years, Preference, *cæteris paribus*, to natives of Lesmahagow, or Muirkirk.

or Pictou, Nova Scotia, and also to students of the name Ferguson or Weir, or to the kin of the Founder. The examination is the same as that for honours in the department of Classical Literature.

61 and 62. *Two Metcalfe Bursaries*, each of annual value £25, tenable for two years. Open to students entering the Senior Mathematics or Chemistry.

63. *Monteith Bursary*, annual value about £14, tenable for three years. Open only to natives of Scotland and sons of Scottish parents. Examination in German.

64. *Mair Junior Bursary in Mathematics*, annual value £9, tenable for sessions 1893-94, 1894-95. The appointment will be determined by the results of the written examinations passed in the course of the session 1892-93 by the public students of the upper junior class of Mathematics.

65. *Muir Senior Bursary in Mathematics*, annual value, £18, tenable for session 1893-94. The appointment will be determined by the results of the written examinations passed in the course of the session 1892-93 by the public students of the Senior Mathematical Class.

66 and 67. *Two Muir Bursaries in Civil Engineering and Mechanics*, annual value, £12 10s. each, tenable for session 1893-94.

#### FOR STUDENTS IN ARTS, OR LAW, OR MEDICINE.

68. *Macmillan Bursary*, annual value £14, tenable for four years, for miners under the age of 21 years. Examination in writing, arithmetic, geography, grammar, and history.

#### 2.—FELLOWSHIPS, SCHOLARSHIPS, ETC.

69. *George A. Clark Scholarship in Natural Science*, annual value about £175, tenable for four years. Open to Glasgow Masters of Arts with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Mathematics, but no student shall be eligible for the examination after the expiration of more than three winter sessions from the time of his completing the course necessary for the M.A. Degree.

70. *George A. Clark Scholarship in Mental Philosophy*, annual value about £175, tenable for two years. Open to Glasgow Masters of Arts as above, *mutatis mutandis*.

71. *William Ewing Fellowship in Mathematics and Natural Philosophy*, annual value £80, tenable for three years. Open to Glasgow Masters of Arts.

72. *Scott Scholarship in Mental Philosophy and English Literature*, annual value £80, tenable for three years. Open to Glasgow Masters of Arts of not more than three year's standing, having graduated with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Mental Philosophy.

73. *John Clark (Mile-end) Scholarship in Classics*, annual value £50, tenable for four years. Open to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

74. *John Clark (Mile-end) Scholarship in Mental Philosophy*, annual

value £50, tenable for four years. Open to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

75. *John Clark (Mid-land) Scholarship in Mathematics and Natural Philosophy*, annual value £50, tenable for four years. Open to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

76. *Breadalbane Scholarship*, annual value £50, tenable for three years. Open to Glasgow Masters of Arts or Bachelors of Science in the Department of Engineering Science who have graduated within a period of not more than three years preceding the competition.

77. *Clydebank Scholarship in Naval Architecture*, annual value £10, tenable for two years. Open to young men not under eighteen years of age, who have been employed at least three years as working apprentices, or in the drawing offices of shipbuilding or engineering works situated in the districts of Clydebank, Yoker, or Dalmuir.

78. *Lloyd's Register Scholarship*, annual value £50, tenable for three years by students of Naval Architecture. Candidates must not be more than 23 years of age.

79. *Luke Fellowship in English Literature and History*, annual value £110, tenable for three years. Open to Glasgow Masters of Arts who have graduated within a period of not more than three years preceding the competition.

80. *Mackay Smith Scholarship*, annual value about £48, tenable for two years. Open to students of Natural Philosophy.

81. *Snell Exhibition*, value about £133 a year, for three years. Candidates must have been born in Scotland, or must be sons of fathers born in Scotland, and must "have resided as undergraduate students for two years at least in Glasgow College, or for one year in that College and two at least in some other College in Scotland."

82. *Sandford Scholarship*, annual value £20, tenable for two years. Open to all matriculated students (not Masters of Arts), who have attended the Public Greek classes for not less than two sessions.

83. *Armagh Bursary*, annual value £25, tenable for three years. Open to Masters of Arts in their first session of Theology, Law, or Medicine. The most distinguished graduate in Arts of the year, who offers himself as a candidate, is appointed by the Senate.

84. *Luke Historical Prize* of £12. Open to all students who have attended during session 1891-92 any Greek or Latin class.

85. *Thomas Logan Memorial Medal and Prize* will be awarded in November to the most distinguished graduate in Arts of the year.

#### DATES OF EXAMINATIONS.

The examinations for Bursaries Nos. 1 to 56 inclusive in the above list, will commence on Tuesday, 18th October, at 10 a.m. The examination papers will be given in the following order, viz.:—

On Tuesday, 18th October,      at 10 a.m., Latin (1st paper).

      "                "            1 p.m., Latin (2nd paper).

      "                "            3.30 p.m., Latin (3rd paper).

On Wednesday, 19th October, at 10 a.m., Mathematics (1st paper).

      "                "            2 p.m., English.

On Thursday, 20th October, at 10 a.m., Greek (1st paper).

2 p.m., Greek (2nd paper).

On Friday, 21st      "      at 10 a.m., Mathematics (2nd paper).

The examinations for Bursary No. 57, will be held on Wednesday, 19th October, and Friday, 21st October, at 10 a.m. each day; for Bursaries Nos. 58 and 59, on Saturday, 22nd October, Wednesday, 26th October, and Thursday, 27th October, at 10 a.m. each day; for Bursary No. 60, on Saturday, 22nd October, at 3 p.m., Monday, 24th October, at 10 a.m., 1 p.m., and 4 p.m., and Tuesday, 25th October, at 10 a.m. and 1 p.m.; for Bursaries Nos. 61 and 62, on Friday, 28th October, at 10 a.m. and 2 p.m., and Saturday, 29th October, at 10 a.m. and 2 p.m.; and for Bursary No. 63, on Saturday, 22nd October, at 2 p.m. The examinations for the Bursary No. 68, will be held in October, on days to be announced hereafter.

The examinations for the Scholarships and Fellowships, Nos. 69 to 79 inclusive, in the above list, will be held along with the examinations for Honours in the several departments for the Degree of M.A., in October, 1892; for Nos. 80 and 81, along with the examinations for Honours, in April, 1893, the English paper for No. 81 being taken on Saturday, 8th April, at 10 a.m.; for No. 82 in April, 1893; and for the Prize No. 84 in January, 1893.

#### DATES FOR SENDING IN APPLICATIONS.

Candidates for the Bursaries Nos. 1 to 57 inclusive and No. 68 are required to give in their names to the Assistant Clerk (Matriculation Office), not later than Tuesday, 11th October; and for Bursaries Nos. 58 to 63, not later than Saturday, 1st October. A schedule, which is to be filled up by each candidate, may be obtained from the Assistant Clerk (Matriculation Office). Candidates for the Bursary No. 25 must, besides, give in their names to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of October; for No. 28 to Robert Brodie, Esq., 77 St. Vincent Street, before the first day of October; for Nos. 29 to 35 to Dr. F. L. Robertson, Hutcheson's Buildings, Ingram Street, before the first day of October; for No. 36, to J. M. McCosh, Esq., Dalry, Ayrshire, before the first day of October; for Nos. 38 to 41, to William Mitchell, Esq., 134 Wellington Street, before the first day of October.

Candidates for the Fellowships, etc., Nos. 69 to 79 inclusive, are required to give in their names to the Assistant Clerk (Matriculation Office), not later than 1st October; for Nos. 80 and 82 on 10th March, 1893; for No. 81 candidates are expected to inscribe their names in a book kept at the Clerk of Senate's Office for the purpose, not later than the 1st December, 1892; and for Nos. 83 and 84, candidates are required to send their names to the Assistant Clerk (Matriculation Office) on 1st December, 1892.

#### B.—FACULTY OF DIVINITY.

*Open to Competition during Session 1892-93.*

1. *John Adam Bursary*, annual value £15, tenable for the Divinity Course. Open to students of Theology of the first year.

2. *Black Bursary*, annual value £42, tenable for three years. Open to

students of Theology of the first year holding a Degree in Arts of any Scottish University, or who have passed their examinations in any two departments for graduation in Arts. Candidates must be members of the Established Church of Scotland.

3. *Brown or Ettes Bursary*, annual value £21, tenable for three years. Open to students of Theology of the first year who have passed all the examinations for graduation in Arts, with a preference, *ceteris paribus*, to such as can speak Gaelic.

4. *Hastie Bursary*, annual value £25, tenable for three years. Open to competition to Masters of Arts of any Scottish University entering upon their first or second year in Divinity.

5. *Lorimer Bursary*, annual value £25, tenable for three years. Open to Students entering the Divinity Hall.

6. *William Muir Divinity Bursary*, annual value £25, tenable for two years. Open to candidates who have passed the examination of the Synodical Board for entrance to the Divinity Hall of the University. Apply to the Rev. Dr. Robertson, Hutchesons' Buildings, Ingram Street, not later than 28th October.

7. *The Findlater Scholarship Prize*, value about £38 sterling, for an examination in Divinity, Church History, and Biblical Criticism. Open to Divinity students who have completed the ordinary course in Session 1891-92, or who shall complete it in Session 1892-93.

8. *The Jamieson Prize*, value about £10 sterling, for an examination in Divinity, Church History, and Biblical Criticism. Open to Divinity students who have completed the ordinary course in Session 1891-92, or who shall complete it in Session 1892-93.

9. *The Macfarlan and Cook Testimonial Prize*, of £21, open to Theological students of three years' standing. Examination in Greek, Moral Philosophy, Hebrew, Church History, and Divinity.

10 and 11. *Two Dowanhill Prizes*, one of £21, and the other of £10 10s., for Elocution. Open to students of Divinity of the third year.

#### DATES AND SUBJECTS OF EXAMINATIONS.

The Examinations for Nos. 1 to 6 inclusive, in the above list, will be held on Thursday, 3rd November, and Friday, 4th November, at 10 a.m. each day; and for the Prizes, No. 7 and 8, on Thursday, 30th March, 1893, and Friday, 31st March, 1893, at 10 a.m. on each day.

The following are the subjects of examination for Bursaries Nos. 1 to 6.

LATIN.—Livy, Book XXII. Horace, *Odes*, Book IV. Translation from English into Latin.

GREEK.—Homer, *Iliad*, Book IV. The Epistle to the Romans.

LOGIC.—Jevons, *Elementary Lessons in Logic*.

MORAL PHILOSOPHY.—Sidgwick, *Outlines of the History of Ethics*—Chapters I., II., and III.

ENGLISH.—Morley, *First Sketch of English Literature*, Chapter XII.

MATHEMATICS.—Euclid, Books I., II., III. Algebra to Quadratic Equations, inclusive.

NATURAL PHILOSOPHY.—Balfour Stewart, *Elementary Physics*, Books I., II., V., and VI.

The subjects of examination for Prizes Nos. 7 and 8 are the same as for the Second Department of the Degree of Bachelor of Divinity.

The subjects of examination for the Prize No. 9 for Session 1892-93 are as follows :—

**GREEK.**—Matthew iv. 17-xvi. 20. Sophocles, *Electra*.

**DIVINITY.**—Doctrine of the Trinity; Subjective Soteriology. Biblical Theology.—The Synoptic Gospels.

**HEBREW**—Genesis i.-xxv. (Text and Exegesis); Isaiah xl.-liii. and Psalms xlii.-lviii. (Text, Exegesis, and Introduction).

**CHURCH HISTORY.**—Ante-Nicene Period.

**MORAL PHILOSOPHY.**—Ferrier, *Lectures on Greek Philosophy*.

#### DATES FOR SENDING IN APPLICATIONS.

Candidates for Nos. 1 to 6 inclusive, are required to give in their names to the Assistant Clerk (Matriculation Office), not later than 28th October, 1892; for the Prizes Nos. 7 and 8, not later than 24th March, 1893; and for the Prizes Nos. 10 and 11, to the Professor of Divinity not later than 20th March, 1893.

### C.—FACULTY OF LAW.

*Watkinson Young Bursary*, annual value £18, tenable for two years, open to students who since December, 1890, have at an examination in Arts, for the Degree of B.L., passed in two Arts subjects, or have passed a Departmental Examination for the Degree of M.A. Applications to be lodged with the Clerk of Senate, on or before 1st December, 1892.

*Major Young's Fund Bursary*, annual value £20, tenable for two years, open to students of the first year in Law. Candidates are required to give in their names to the Assistant Clerk (Matriculation Office), not later than Tuesday, 11th October.

*Andrew Cunningham Scholarship*, annual value about £32, tenable for two years, will be awarded in November, 1892, to the most distinguished Bachelor of Laws of the year, special consideration being given to eminence in Conveyancing.

For the Armagh, the James Ferguson, and the Macdonald Bursaries, see Nos. 83, 60, and 68 under Faculty of Arts.

### D.—FACULTY OF MEDICINE.

1. *Mackintosh Bursary*, annual value about £30, tenable for one year, open to medical students who have attended the Lectures on Insanity.

2. *Lorimer Bursary*, annual value £25, tenable for three years, open to medical students entering on their second session.

3. *Rainy Bursary*, annual value £20, tenable for two years, open to students entering on their third session of medical study.

4. *Malcolm Kerr Bursary*, annual value £18, tenable for three years by students of Chemistry. Examination in October, same as for M.A. with Honours in Natural Science.

5. *Davidson Bursary*, annual value £35, tenable for three years. Awarded in accordance with results of First Professional Examination, but preference being given to founder's relatives and natives of Muirkirk, Dalserf, Lesmahagow, or Loudon.

6. *John Monteith Bursary*, annual value about £20, tenable for two years, will be awarded in November to the student who gains the highest number of marks in Anatomy and Physiology in April and October, 1892.

7. *Andrew Weir Bursary*, annual value £18, tenable for one year, will be awarded in November in accordance with results of Second and Third Professional Examinations.

8. *Marshall Bursary*, annual value £17, tenable for four years, open to students entering on their first winter session of medical study.

9. *Brisbane Bursary*, annual value £45, tenable for four years, open to Masters of Arts under twenty-two years of age, who are entering on their first winter session of medical study.

10. *Merchants' House Bursary*, annual value £25, tenable for four years, open to students entering on their first winter session of medical study.

11. *Macarthur Bursary*, annual value £20, tenable for two years. [Awarded to Johnstone Brown in April, 1891.]

12. *Junior Arnott Prize*, of about £15, for an examination in General Physics, open to students of the first and second years of their medical studies.

13. *Senior Arnott Prize*, of £25, for an examination in Physiological Physics, open to students of the third and fourth years of their medical studies.

14. *Brunton Memorial Prize*, of about £10, is given to the most distinguished graduate in medicine of the year.

15. *Robert Donaldson Scholarship*, in Chemistry, annual value about £62, tenable for two years, open to students who have taken the Degree of B.Sc., in Glasgow University.

16. *Mackay Smith Scholarship*, annual value £48, tenable for two years. Open to students of Chemistry.

#### DATES OF EXAMINATIONS.

The Examinations for the Bursary No. 1 in the above list will be held early in July; for Nos. 2 and 3, on Monday and Tuesday, 3rd and 4th October, at ten A.M. each day; for No. 4, on a day in October to be fixed hereafter; for Nos. 8, 9, and 10, on Tuesday, 18th October, and three following days; for the Prizes Nos. 12 and 13, on Saturday, 29th October, at two P.M.; and for the Scholarship No. 16, on 28th March, 1893, at ten A.M.

#### DATES FOR SENDING IN APPLICATIONS.

Candidates for the Bursary No. 1 are required to give in their names to the Assistant Clerk (Matriculation Office), not later than 15th June; for Bursaries 2 and 3, not later than 15th September; for Bursary No. 4, for Prizes 12 and 13, and for the Scholarship No. 15, not later than 1st October; for Bursaries Nos. 8, 9 and 10, not later than 11th October; and for the Scholarship No. 16, not later than 10th March, 1893. Candidates for No. 10 must, besides, give in their names to the Clerk of the Merchants' House not later than 1st October.

## 5.—UNIVERSITY PRIZE ESSAYS.

### FOR SESSION 1892-93.

1. The LORD RECTOR'S PRIZE OF TWENTY-FIVE POUNDS, for the best Essay, on "Progress." All Matriculated Students of the University in session 1890-91, 1891-92, or 1892-93, may be Competitors.

2. In THEOLOGY, the CLELAND GOLD MEDAL, for the Best Essay on "Agnosticism." All Students of Divinity in Session 1891-92, or 1892-93, may be Competitors.

3. In MENTAL PHILOSOPHY, the UNIVERSITY SILVER MEDAL, for the Best Essay on "The Relations of Philosophy and Science." All Students of the Classes of Logic, Moral Philosophy, or English Literature, in Session 1891-92, or 1892-93, may be Competitors.

4. The EWING GOLD MEDAL, for the Best Essay on "The Political Causes and Consequences of the American Civil War." All Matriculated Students of the University in Session 1892-93 may be Competitors.

5. A WATT PRIZE OF TEN POUNDS, for the Best Essay on "The Liquefaction of Gases." For the Watt Prize all Matriculated Students of the University in Session 1892-93, who have finished, or who, on the 1st of May, 1893, shall finish a regular course of Languages and Philosophy, may be Competitors.

6. A COULTER PRIZE OF FIVE POUNDS for the Best Sermon on Gal. v. 17.

7. A COULTER PRIZE OF FIVE POUNDS, for the Best English Essay on "The Development of certain typical Greek Myths from the earliest times to the maturity of the Attic Drama." [Myths concerning the Houses of Labdacus, or Pelops, the Titans, and Heracles, are suggested for treatment; but the candidate may use his freest discretion.]

For the Coulter Prizes all Matriculated Students of the University in Session 1892-93 may be Competitors.

8. The RAE WILSON GOLD MEDAL, for the Best Essay on "The Essenes." All Students attending the Divinity Class in Session 1892-93 may be Competitors.

9. The HENDERSON PRIZE OF TWENTY GUINEAS, for the Best Essay on "The Influence of the Sabbath on the Political and Social Life of the Israelites." All Matriculated Students of the University in Session 1892-93 may be Competitors.

10. The DOBBIE-SMITH GOLD MEDAL, for the Best Essay on any subject within the limits of the Science of Botany. The treatment of the subject to show original work, and the Essay to be accompanied by an illustrative series of Macroscopic and Microscopic Specimens. All Matriculated Students of Session 1892-93, or of the preceding Summer Session, may be Competitors.

The Essays must be given in to the Principal, on or before Monday, 14th November, 1892, after which day none can be received. Each must be distinguished by Two Mottoes, and accompanied by a sealed letter bearing on the outside the same Mottoes, and containing a declaration subscribed by the author that the Essay is entirely of his own composition. All quotations in the Essays must be carefully marked, and accurate references to their respective authorities given in the notes. The Senate reserves the power of withholding the Prize for any subject if none of the Essays on that subject reaches a sufficiently high standard of merit.

## VIII.—HONOUR LIST.

LIST OF NAMES OF GENTLEMEN WHO HAVE TAKEN DEGREES  
WITH HONOURS SINCE THE YEAR 1836.

## MASTERS OF ARTS (M.A.)

			<i>Class of Honours and Department.</i>			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science
1836	John Cunningham,	Scotland,	...	...	I	...
"	William Fulton,	do.,	II	II	-	...
1837	Richard Shaen,	England,	...	...	II	...
"	Thomas E. Richardson,	do.,	...	...	II	...
"	John Blair,	Ireland,	...	...	II	...
"	William Cuthel,	Scotland,	...	...	II	...
1840	Duncan H. Weir,	do.,	...	...	II	...
"	James Thomson,	do.,	...	...	II	...
"	John Buchanan,	do.,	...	...	II	...
1841	John D. Morell,	England,	II	II	-	...
"	William Arthur Jones,	Wales,	II	II	-	...
1842	Alexander Grierson,	Scotland,	...	...	II	...
"	John Davies,	England,	II	II	-	...
1843	Nathaniel Haycroft,	do.,	II	II	-	...
"	John Trafford,	do.,	II	II	-	...
"	David Duff,	Scotland,	...	...	II	...
1844	John Morgan,	do.,	...	...	II	...
"	John Thomson,	do.,	...	...	II	...
"	William T. Ker,	do.,	...	...	II	...
"	Richard Tomlinson,	England,	II	II	-	...
"	David M'Lauchlan,	Scotland,	II	II	-	...
1846	Robert Graham,	do.,	...	...	II	...
1847	William John Steele,	Ireland,	...	...	II	...
"	James Porter,	do.,	...	...	II	...
1848	Adam Milroy,	Scotland,	II	II	-	...
"	Walter D. Jeremy,	England,	II	II	-	...
1849	John Ker,	Scotland,	...	...	I	...
"	George M'Queen,	do.,	...	...	I	...
"	Henry Martyn Barker,	England,	I	I	-	...
"	John Newton Langley,	do.,	I	I	-	...
1850	Alexander Walker,	Scotland,	II	II	-	...
"	Horatio Lindsay Taplin,	England,	II	II	-	...
"	Robt. Masters Theobald,	do.,	II	II	-	...
1851	Carstairs Douglas,	Scotland,	...	...	II	...

			<i>Class of Honours and Department.</i>			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
851	Daniel Davies Jeremy,	England,	II	II	...	...
852	Thomas Logan,	Scotland,	...	...	II	...
"	James Wylie Johnston,	do.,	II	II	...	...
853	Chas. Abercromby Smith,	do.,	...	...	I	...
"	William Jack,	do.,	...	...	I	...
"	Edward Gibbs,	England,	I	I	...	...
856	James Galbraith,	Scotland,	...	...	II	...
"	John Murray,	do.,	...	...	II	...
857	Joseph D. Everett,	England,	II	II	I	...
"	George M. Grant,	Nova Scotia,	...	I	...	...
"	David Herbert,	Scotland,	...	II	...	...
"	Neil M'Pherson,	do.,	II	II	...	...
858	William R. Pattison,	do.,	II	II	...	...
"	John Weir,	do.,	...	II	...	...
859	Robert Whyte,	do.,	...	II	...	...
860	George Porter,	do.,	II	II	...	...
"	Joseph Gardner,	do.,	...	II	...	...
"	Walter Roberts,	do.,	...	II	...	...
861	Richard Vary Campbell,	do.,	...	I	...	...
"	Daniel Munro,	do.,	II	...	...	...
"	Peter Sinclair Menzies,	do.,	II	...	...	...
862	John M'Lean,	do.,	II	II	...	...
"	Thomas Carruthers	do.,	II	II	...	...
"	William Stewart,	do.,	II	II	...	...
"	George Mathieson,	do.,	...	II	...	...
"	Henry W. Bell,	India,	...	II	...	...
"	John Ferguson,	Scotland,	...	...	...	I
863	David Thomas,	do.,	...	II	...	...
866	John Mann,	do.,	I	...	...	...
"	John Fergusson,	do.,	...	II	...	...
867	William E. Grigsby,	England,	II	...	...	...
"	James Smith,	Scotland,	...	...	I	...
"	William Ross,	do.,	...	...	II	...
868	Robert Stewart,	do.,	...	I	...	...
"	John Wilson,	do.,	...	I	...	...
869	Favour James Greg,	do.,	...	I	...	...
"	Adam Semple,	do.,	...	I	...	...
"	Joseph Loudon,	do.,	...	...	II	...
"	James M'Intosh,	do.,	...	I	...	...
870	John Cross,	U. S. A.,	I	I	...	...
"	Matthew M. Dickie,	England,	II	I	...	...
"	James Orr,	Scotland,	...	I	...	...
"	Robert A. Sinclair.	do.,	...	II	...	...
"	James D. H. Dickson,	do.,	...	...	II	...
"	Dugald M'Kiehan.	do.,	...	...	II	...

			<i>Class of Honours and Department.</i>			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1871	William S. Fleck,	Scotland,	...	I	...	...
"	William Oliver,	Wales,	...	II	...	...
"	John E. H. Thomson,	Scotland,	...	II	...	...
"	Colin R. M'Clymont,	do.,	...	I	...	...
"	Charles S. Dickson,	do.,	...	II	II	...
1872	William Hamilton,	do.,	...	I	...	...
"	John Watson,	do.,	...	I	...	...
"	Zachary M. H. Ross,	do.,	...	II	...	...
"	Archibald Russell,	do.,	...	II	...	...
"	William G. Miller,	do.,	...	...	II	...
"	John M. Brown,	do.,	...	I	...	...
"	Alexander S. Macphee,	do.,	...	I	...	...
"	James C. MacTaggart,	do.,	...	...	I	...
"	James Henderson,	do.,	...	...	II	...
1873	William Bathgate,	do.,	I	...	...	...
"	John M'Cunn,	do.,	...	I	...	...
"	T. Lindsay Galloway,	do.,	...	...	I	...
"	David Hunter,	do.,	II	I	...	...
"	Robert Harvey,	do.,	I	...	...	...
"	Thomas H. Miller,	do.,	...	...	I	...
"	Buchanan Blake,	do.,	...	II	...	...
"	James Arthur,	do.,	...	...	II	...
1874	James Bonar,	do.,	I	I	...	...
"	James G. Frazer,	do.,	I	...	...	...
"	Alexander F. Fraser,	do.,	...	I	...	...
"	John Wilson Reid,	do.,	I	...	II	...
"	Colin Campbell,	do.,	II	I	...	...
"	James Thomson,	do.,	...	I	...	...
"	Hugh Hart Currie,	do.,	II	...	...	...
"	James MacKay,	do.,	II	...	...	...
1875	Ben'jn F. C. Costelloe,	Ireland,	II	I	...	...
"	William Yuill King,	Scotland,	I	...	...	...
"	William Patrick,	do.,	...	I	...	...
"	John Patrick,	do.,	II	...	...	...
"	James S. Russell,	do.,	...	...	I	...
"	John C. Watt,	do.,	...	...	I	...
"	John B. Douglas,	England,	II	...	...	...
"	Neil D. MacLachlan,	Scotland,	...	II	...	...
"	James Johnston Dobbie,	do.,	...	...	...	I
1876	James Lambie,	do.,	...	I	...	...
"	Ebenezer B. Speirs,	do.,	...	I	...	...
"	Islay F. Burns,	do.,	II	...	...	...
"	Robert MacLehose,	do.,	...	II	...	...
"	Joseph Conn,	do.,	...	...	II	...
"	Robert H. Pinkerton,	do.,	...	...	II	...

			<i>Class of Honours and Department.</i>			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1876	David Wilson,	Scotland,	...	...	II	...
"	John P. Mitchell,	do.,	...	I	..	...
"	William M. Rankin,	do.,	...	I	..	...
"	Andrew Gray,	do.,	...	..	II	..
1877	Wallace M. Lindsay,	do.,	I	II	..	..
"	Alexander S. Wilson,	do.,	...	..	..	I
"	James Kidd,	do.,	...	I	..	..
"	Thomas B. Kilpatrick,	do.,	...	I	..	..
"	Mungo W. M'Callum,	do.,	...	II	..	..
"	William Allan,	do.,	...	..	II	..
"	James Arthur,	do.,	...	..	II	..
1878	Robert Mackintosh,	do.,	II	I	..	..
"	John Edgar,	do.,	I	..	..	..
"	John M. Dodds,	do.,	...	..	I	..
"	David W. Forrest,	do.,	...	II	..	..
"	Alexander Isdale,	do.,	...	I	..	..
"	Lewis A. Muirhead,	do.,	...	I	..	..
"	James Wilson,	do.,	II	..	II	..
1879	John Wilson Marshall,	do.,	I	II	..	..
"	Francis Wm. Clark,	do.,	II	II	..	..
"	Henry Jones,	Wales,	...	I	..	..
"	William T. Bankhead,	Scotland,	...	II	..	..
"	Andrew Rutherford,	do.,	...	II	..	..
"	James Thomson,	Ireland,	...	..	II	..
"	James Denney,	Scotland,	I	I	..	..
"	James Kippen Duff,	do.,	I	..	..	..
"	Robt. Tannahill Younger,	do.,	..	II	..	..
"	William L. Macindoe,	do.,	...	..	II	..
1880	Alexander Gregory,	do.,	II	..	..	..
"	Thomas Gregory,	do.,	I	I	I	..
"	Alexander N. Cumming,	do.,	II	II	..	..
"	Hugh Young Reyburn,	do.,	II	II	..	..
"	John G. A. Dow,	do.,	II	..	..	..
"	John Henderson,	do.,	...	II	..	..
1881	Cecil J. Swan,	do.,	II	..	..	..
"	Francis H. Stead,	England,	II	I	..	..
"	David S. Adam,	Scotland,	...	I	..	..
"	William Granger,	do.,	...	I	..	..
"	Robt. F. Muirhead, B.Sc.,	do.,	...	..	I	..
"	Alexander Russell,	do.,	...	..	I	..
"	Patrick H. Aitken,	do.,	II	..	..	..
"	Alexander Anderson,	do.,	II	..	..	..
"	Robert T. Loudon,	do.,	...	II	..	..
"	Robert Veitch,	England,	...	II	..	..

			<i>Class of Honours and Department.</i>			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1881	James Maclay,	Scotland,	...	...	II	...
"	John Stuart,	do.,	...	...	II	...
"	James Hamilton,	do.,	...	...	II	...
1882	James A. M'Callum,	do.,	...	I	...	...
"	John H. Fullarton,	do.,	...	...	...	I
"	Charles P. Blair,	do.,	...	II	...	...
"	James M. Dodds,	do.,	I	...	...	...
"	John S. MacKenzie,	do.,	...	I	...	...
"	William Smart,	do.,	...	I	...	...
"	John Weir,	do.,	...	...	I	...
"	John Gray,	do.,	...	II	...	...
"	Charles Steele,	do.,	...	II	...	...
1883	John Aitken Orr,	do.,	...	I	...	...
"	Alexander Robinson,	do.,	...	II	...	...
"	Lewis Hughes,	Wales,	...	II	...	...
"	Francis Anderson,	Scotland,	...	I	...	...
"	Wm. S. M'Kechnie,	do.,	...	I	...	...
"	William Muir,	do.,	...	I	...	...
"	James W. Inglis,	do.,	II	...	...	...
"	Patrick H. Hutchinson,	Ireland,	II	...	...	...
"	Robert A. Moody,	Scotland,	II	...	...	...
"	William T. Mitchell,	do.,	...	...	II	...
1884	Andrew A. Mitchell,	do.,	I	...	...	...
"	James M'Millan,	do.,	I	...	...	...
"	Archd. S. Laidlaw,	do.,	...	I	...	...
"	John Mack,	do.,	...	...	I	...
"	William Clark,	do.,	II	...	...	...
"	John Struthers,	do.,	II	I	...	...
"	Archibald M'Laren,	do.,	I	...	...	...
"	John Adams,	do.,	...	I	...	...
"	James Barr,	do.,	...	I	...	...
"	Gavin Lambie,	do.,	...	I	...	...
"	Robert M. Wenley,	do.,	...	I	...	...
"	George G. Henderson,	do.,	...	...	...	I
"	Campbell N. Moody,	do.,	II	II	...	...
"	Hugh Stevenson,	do.,	...	II	...	...
"	James Strachan,	do.,	...	...	II	...
"	Alex. B. Symington,	do.,	II	...	...	...
1885	John Lee,	do.,	I	...	...	...
"	James Buchanan,	do.,	...	...	I	...
"	Norman Fraser,	do.,	...	...	I	...
"	James P. M'Laren,	do.,	II	...	...	...
"	William Binnie,	do.,	...	II	...	...
"	David Frew,	do.,	...	II	...	...
"	Richard Glaister,	do.,	...	II	...	...
"	David Houston,	do.,	...	II	...	...

			<i>Class of Honours and Department.</i>			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1885	Walter Wingate,	Scotland,	...		II	...
"	William M. Mackay,	do.,	...	I	...	...
"	Andrew F. Smith,	do.,	...	I	...	...
"	Alex. L. Watson,	do.,	II	...	...	...
"	Archibald J. Macnicol,	do.,	...	...	II	...
1886	Charles F. Fleming,	England,	...	I	...	...
"	Wellstoad A. Watt,	Scotland,	...	I	...	...
"	John Dougall,	do.,	...	...	I	...
"	John M'Cowen, B.Sc.,	do.,	...	...	I	...
"	William H. Carslaw,	do.,	...	...	II	...
"	Magnus M'Lean,	do.,	...	...	II	...
"	John A. Cramb,	do.,	I	...	...	...
"	Robert A. Duff,	do.,	...	I	...	...
"	William Johnston,	do.,	...	II	...	...
"	James Macmillan,	do.,	...	...	II	...
"	Robert A. Nicolson,	do.,	...	...	II	...
1887	James Finlayson,	do.,	...	...	II	...
"	James Gifford,	do.,	...	II	...	...
"	Charles Mackay Gordon, W. Indies	...	...	I	...	...
"	David Smith,	Scotland,	I	...	...	...
"	John Watson Bryson,	do.,	...	I	...	...
"	Robert Gardner,	do.,	...	II	...	...
"	James Gilfillan,	do.,	...	I	...	...
"	Daniel Kirkwood,	do.,	...	II	...	...
"	Alexander Lucas Taylor,	do.,	II	...	...	...
"	John Thomson,	do.,	...	...	II	...
1888	John Esslemont Adams,	do.,	II	...	...	...
"	Archibald Lamont,	do.,	...	II	...	...
"	Arthur David Millar,	do.,	I	...	...	...
"	John Dickson Sinclair,	do.,	...	II	...	...
"	Evan Keri Evans,	Wales,	...	I	...	...
"	Robert Kennedy, B.Sc.,	Scotland,	...	...	...	I
"	John Liddle King,	do.,	...	II	...	...
"	Malcolm Macnicol,	do.,	...	...	II	...
"	Ernest Findlay Scott,	England,	I	I	...	...
"	Robert Scrymgeour,	Scotland,	...	I	...	...
"	Robert Reid Strachan,	do.,	...	II	...	...
"	John Cunningham Walker,	do.,	...	II	...	...
1889	Norman de Garis Davies,	England,	...	II	...	...
"	George Davidson Kempt,	Scotland,	...	II	...	...
"	Alfred Ernest Garvie,	Poland,	...	I	...	...
"	John Hunter Harley,	Scotland,	...	I	...	...
"	John Brownlee,	do.,	...	...	I	...
1890	James Fairlie Gemmill,	do.,	I	...	...	...
"	John Edgar M'Fadyen,	do.,	I	...	...	...
"	James Robertson Cameron,	do.,	...	I	...	...

			<i>Class of Honours and Department.</i>			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1890	James Moffatt,	Scotland,	II	...	...	...
	„ James Peter Wilson,	do.,	II	...	...	...
	„ John Easton Black,	do.,	...	II	...	...
	„ George Douglas Brown,	do.,	I	...	...	...
	„ Robert Bulloch Douglas,	do.,	...	I	...	...
	„ Peter Pinkerton,	do.,	...	...	I	...
	„ Douglas Blyth Binning,	do.,	..	II	...	...
	„ Robert Baillie Douglas,	do.,	...	II	...	...
	„ James Hair Maclean,	do.,	...	II	...	...
	„ Gilbert Buchanan,	do.,	..	...	II	...
1891	„ Alexander Holm,	do.,	...	...	II	...
	John Hamilton Pagan,	do.,	I	...	...	...
	„ John Gillies,	do.,	II	...	...	...
	„ John M'Gilchrist,	do.,	II	...	...	...
	„ Horatio Scott Carslaw,	do.,	...	..	I	...
	„ James Holm,	do.,	...	..	I	..
	„ Nicol Macnicol,	do.,	II	II	...	...
	„ John White,	do.,	...	II	...	...
1892	David Donaldson Robertson,	do.,	...	I	...	...
	„ Daniel Lamont,	do.,	...	II	I	...
	„ John Gillespie Spens,	do.,	II	...	...	...
	„ Alexander Taylor,	do.,	II	...	...	...

## BACHELORS OF SCIENCE (B.Sc.).

			Honours.
		Natural Science.	Engineering Science.
1879	Robert F. Muirhead, C.E., Scot.,		Math. & Nat. Phil. II
1882	John Cleland, C.E., Scotland,		Math. & Nat. Phil. II
1883	John M'Cowan, C.E., do.,		Math. & Nat. Phil. II
1884	William Weir, do.,		Math. & Nat. Phil. II
„	James C. Todd, India,	Math. & Nat. Phil. II	
1886	Laurence Crawford, Scotland,		Math. & Nat. Phil. I
1887	Angus M'Lean, do.,		Math. & Nat. Phil. II
1890	James Stanley Muir, do.,	Chemistry.	
„	Robert Watson Smith, do.,	Chemistry.	
1891	James Fenwick, Australia,		Civil Engineering.
„	Robert Main,		Civil Engineering.
„	Robert Muir Ferrier,		{ Math. & Nat. Phil. I
1892	John Dewar Cormack,		Civil Engineering.
„	James Blacklock Henderson,		{ Math. & Nat. Phil. I
			Civil Engineering.

## BACHELORS OF ARTS (B.A.).

			Classics.	Mental Philosophy.
1838	William Makellar,	Scotland,.....	II	...
"	Francis Tucker,	England,.....	II	...
1852	Samuel Crusha Sarjant,	do., .....	I	I
1856	David Johnston,	do., .....	..	II
1857	Andrew Moody,	Scotland,.....	..	II
"	William T. Johnston,	do., .....	I	...
1858	John MacLeod,	do., .....	..	I
1861	Thomas Robinson,	England,.....	..	II

## DOCTORS OF MEDICINE (M.D.). (O.R.) HONOURS.

1845	Alexander Lindsay,	Scotland.	1853	Richard Stanistreet,	Ireland.
"	James Craigie Murray,	do.	"	David Knox,	do.
"	Francis Reynolds,	Ireland.	1854	John Lindsay Stewart,	Scotland.
"	John Brown,	Scotland.	"	James Fraser Paton,	do.
"	John Gardiner,	do.	"	David Easton,	Ireland.
"	Donald Cameron,	Isle of Man.	1855	William Leishman,	Scotland.
"	Adam Nicholson,	Scotland.	"	William J. Lewis, New Brunswick.	
"	John Duke,	Ireland.	"	Alexander Robertson,	Scotland.
1847	William Parry,	Wales.	1857	Thomas Beaumont,	Ireland.
"	Robert Livingstone,	Scotland.	"	Joseph M. Fleming,	Scotland.
"	Alexander B. Sharpe,	Scotland.	"	Maxwell Rodgers,	Ireland.
1848	Charles H. Hitchen,	England.	1858	John Couper,	Scotland.
"	James Steven,	Scotland.	"	Thomas McCall Anderson,	do.
"	John Coates,	Ireland.	1859	Daniel Dougal,	do.
1849	Robt. Brown McClelland,	Ireland.	1861	William Marshall,	America.
"	Thomas Nicholson,	Scotland.	"	John M. Murray,	Scotland.
"	Robert Settle,	England.	1862	James A. Allan,	do.
"	Richard Thomas Tracy,	Ireland.	1863	Robert M'K. Duncan,	do.
"	Matthew John Rae,	Scotland.	"	George M'Donald,	do.
1850	John Ternan,	Ireland.	"	Samuel J. Moore,	Ireland.
"	John Henry Eddowes,	England.	"	William Fraser,	Nova Scotia.
"	James Brash,	Scotland.	"	T. Algernon Chapman,	Scotland.
1851	Alexander Marshall,	do.	"	Algernon Wood Smith,	do.
"	Andrew Spearng,	Ireland.	"	John P. Atkinson,	England.
"	James B. Montgomery,	England.	1864	John Wyber,	Scotland.
"	Robert Perry,	Scotland.	"	J. G. Wilson, M.A.,	do.
"	John Watson, B.A.,	do.	1865	Arthur A. Jamieson,	England.
1853	John Ritchie Brown,	do.	"	Fred. H. Quaife, M.A. Sydney, N.S.W.	
"	Charles D. Campbell,	Ireland.	1867		

## DOCTORS OF MEDICINE (M.D.). (N.R.)

## COMMENDED FOR THESIS.

1876. Gardner, William, M.B., England.  
 1877. Turner, William Y., M.B., Scotland. Thesis, "The Ethnology of the Motu."  
 1879. Fleming, William James, M.B., Scotland. Thesis, "The Dicrotic Notch in Pulse Tracings."

1880. Oliver, Thomas, M.B., Scotland. Thesis, "Heredity viewed in its relation to Responsibility."
1880. Bryce, James, M.B., Scotland. Thesis, "That Mankind originated as a Common Family most probably on a Continent in the Indian Ocean - certainly within the Tropics."
1881. Adams, James Alexander, M.B., Scotland. Thesis, "Anatomical Relation between Abscess of Brain and Aural Disease."
1881. Stewart, Alexander, M.B., Scotland. Thesis, "History of a Personal Attack of Typhoid Fever."
1881. Drummond, James, M.B., Scotland. Thesis, "Sea Sickness: its Etiology, Symptoms, and Treatment."
1881. Macphail, Donald, M.B., Scotland. Thesis, "Chemical Investigations on the Degenerative Changes in Diseased Bone."
1882. Cairns, David, M.B. Thesis, "An Outbreak of Pyæmia."
1882. Adam, Thomas Bate, M.B., Scotland. Thesis, "The Pathology and Etiology of Elephantoid Disease."
1882. Rankin, Guthrie, M.B., Scotland. Thesis, "Puerperal Fever."
1883. Inglis, David Wood, M.A., M.B., Scotland. Thesis, "On the Prevention of Lead Poisoning among Workers in White Lead Factories."
1883. Newman, David, M.B., Scotland. Thesis, "Displacements of the Kidney."
1884. Lawrie, J. Macpherson, M.B., Scotland. Thesis, "On some Symptoms of Locomotor Ataxy."
1884. Allan, Robert, M.B., Scotland. Thesis, "Dermoid Cysts."
1884. Middleton, George S., M.A., M.B., Scotland. Thesis, "On the Pathology of Pseudo-Hypertrophic Muscular Paralysis." Highly Commended.
1884. Steven, John Lindsay, M.B., Scotland. Thesis, "The Pathology of Suppurative Inflammations of the Kidneys." Highly Commended.
1885. Mackay, John Yule, M.B., Scotland. Thesis, "The Origin and Development of the Larger Arteries." Highly Commended.
1885. Macvie, William, M.B., Scotland. Thesis, "Atrophic Infantile Paralysis."
1885. Dougal, James, M.B., Scotland. Thesis, "Puerperal Pyrexia."
1886. Lawrie, William John, M.B., Scotland. Thesis, "Pathological Formations of the Skin."
1886. Somerville, William Francis, M.A., B.Sc., M.B., Scotland. Thesis, "Urosemiotic: the Pathological Chemistry of the Urine, the complete Quantitative Analysis of the Urine; a valuable aid to Clinical Diagnosis." Highly Commended.
1886. Stewart, Robert Sloss, M.B., Scotland. Thesis, "Observations on the Spinal Cord in the Insane." Highly Commended.
1886. Rankin, Alexander, M.B., Scotland. Thesis, "Cerebral Cases, with remarks."
1886. Auld, Alexander Gunn, M.B., Scotland. Thesis, "Studies in Materia Medica."
1887. Chalmers, Archibald Kerr, M.B., Scotland. Thesis, "The Temperature Curve of Specific Fevers."
1887. Neilson, Henry John, M.B., Scotland. Thesis, "On the observation of the pupil as a guide in the administration of Chloroform."
1887. Brown, John, M.B., Scotland. Thesis, "Maternal Impressions."
1887. Love, John, M.B., Scotland. Thesis, "Three cases of Cortical Epilepsy considered in relation to the localization of the discharging lesion."
1888. Finlay, David, M.B., Scotland. Thesis, "Clinical Observations on Epileptic Insanity."
1888. Love, James Kerr, M.B., Scotland. Thesis, "The Limits of Hearing."
1888. Macpherson, Charles, M.B., Scotland. Thesis, "Plural Pregnancies."
1888. Wallace, William, M.B., Scotland. Thesis, "The Field of Vision: with special reference to its Anomalies in Diseases of the Nervous System."

1889. Christie, William Walls, M.B., C.M., Scotland. Thesis, "The Outbreak of Febrile Disease in St. Mary's Roman Catholic Industrial Schools, Glasgow, March 1888 : its Clinical Features and Nature."
1889. Kelly, James Kelloch, M.B., Scotland. Thesis, "Private Obstetric Practice : an analysis of 3000 consecutive cases."
1889. Mackenzie, William James, M.B., India. Thesis, "The effects of the conditions of London Life on the Nervous System : with remarks on the treatment."
1889. Hinshelwood, James, M.A., M.B., Scotland. Thesis, "A Clinical Study of Syphilitic Diseases of the Nervous System."
1890. Anderson, John Alexander, M.B., Scotland. Thesis, "On Tetanus : with a record of six cases."
1890. Bankier, Alexander Milne, M.B., England. Thesis, "Influenza."
1891. Smith, John Macdowall, M.B., Scotland. Thesis, "The Disposal of Sewage and City Refuse."
1891. Rhodes, Hugh, M.B., C.M., England. Thesis, "Koch's Treatment in Phthisis and Lupus." With Honours.
1891. Bannatyne, Gilbert Alexander, M.B., C.M., Scotland. Thesis, "The Treatment of Diphtheria by the Injection of the Erysipelas Albumose."
1891. McGregor, Andrew Nicholson, M.B., C.M., Scotland. Thesis, "Some Notes on the Repair of Bone, with special reference to Transplantation and other Artificial Aids."
1891. Ramsay, Andrew Maitland, M.B., C.M., Scotland. Thesis, "Exophthalmic Goitre."
1891. Johnstone, John Carlyle, M.B., C.M., Scotland. Thesis, "Some Notes on the use of Sulphonal."

## BACHELORS OF MEDICINE (M.B.). HONOURS.

1866	Robert W. Forrest,	Scotland.	1878	Alexander Fraser,	Scotland.
"	Henry T. Pringle,	do.	"	James Morton,	do.
1867	Ebenezer Duncan,	do.	"	William Partington,	do.
"	Joseph Coats,	do.	"	Lawrence A. Waddell,	do.
"	James Finlayson,	do.	1879	William K. Peden,	do.
1868	Thomas Barr,	do.	"	Ralph D. Stevenson,	Australia.
"	William MacLachlan,	do.	1880	Andw. A. Hogarth, M.A.,	Scotland.
"	Angus Macmillan,	do.	"	J. McGregor-Robertson, M.A.,	do.
1869	James Coats,	do.	"	John Lindsay Steven,	do.
1871	David Wilkie,	do.	1881	John More Young, M.A.,	do.
"	John Aikman,	do.	1882	Robert Beith,	do.
1872	John D. Macdonald,	do.	1883	John Innes Dunlop,	do.
"	Samson Gemmell,	do.	1884	Charles O. Hawthorne,	England.
1876	Geo. S. Middleton, M.A.,	do.	1886	Alexander Bryce,	Scotland.
"	Richard B. Macpherson,	do.	"	Wm. Snodgrass, M.A.,	U.S.A.
1877	Johan B. Knobel,	Africa.	"	John H. Carslaw, M.A.,	Scotland.
"	Donald Macphail,	Scotland.	1887	William MacLennan,	do.
"	John Carlyle Johnstone,	do.	1891	Hugh Galt,	do.
"	Edward D. M. Mackellar,	do.	"	Robert Currie Robertson, M.A.,	do.

## BRUNTON MEMORIAL PRIZE OF £10,

*Awarded to the most distinguished Graduate in Medicine of the year.*

- |  |   |
|--|---|
| 1880. John Lindsay Steven, M.B., C.M.                            | 1886. Alexander Bryce, M.B., C.M.               |
| 1881. John More Young, M.A., M.B.,<br>C.M.                       | 1887. William MacLennan, M.B., C.M.             |
| 1883. Robert Beith, M.B., C.M.<br>John Innes Dunlop, M.B., C.M., | 1888. Landel Rose Oswald, M.B., C.M.            |
| 1884. Charles Oliver Hawthorne, M.B.,<br>C.M.                    | 1889. William Robert Jack, B.Sc., M.B.,<br>C.M. |
| 1885. Andrew Wilson, M.B., C.M.                                  | 1890. George Lamb, M.B., C.M.                   |
|  | 1891. Hugh Galt, M.B., C.M.                     |

## THOMAS LOGAN MEDAL AND PRIZE,

*Awarded to the most distinguished Graduate in Arts of the year.*

- |                                  |                                 |
|----------------------------------|---------------------------------|
| 1888. Ernest Findlay Scott, M.A. | 1890. John Edgar M'Fadyen, M.A. |
| 1889. Alfred Ernest Garvie, M.A. | 1891. James Holm, M.A.          |

*IX.—DEGREE AND PRIZE LIST.***LIST OF DEGREES**

**CONFERRED IN THE VARIOUS FACULTIES AND OF PRIZES AND CERTIFICATES OF HONOUR AWARDED IN THE SEVERAL CLASSES OF THE UNIVERSITY DURING THE YEAR ENDING 1ST MAY, 1892.**

**DOCTORS OF DIVINITY (D.D.).**

- Rev. James Barclay, M.A., of St. Paul's, Montreal, formerly of St. Cuthbert's, Edinburgh.  
 Rev. Colin Campbell, B.D., St. Mary's, Dundee.  
 Rev. James Cosh, M.A., Sydney, New South Wales, Tutor in Exegetical Theology to the Presbyterian Church of New South Wales.  
 Rev. David Hunter, B.D., St. Mary's, Partick.  
 Rev. Alexander Orrock Johnston, M.A., Westbourne Free Church, Glasgow.  
 Rev. Alexander Robertson MacEwen, B.D., Claremont U.P. Church, Glasgow.

**DOCTORS OF LAWS (LL.D.).**

- Bernard Bosanquet, M.A. (Oxon.), author of "Logic" and other metaphysical works.  
 James Dewar, M.A., F.R.S., Jacksonian Professor of Natural and Experimental Philosophy in the University of Cambridge, and Fullerian Professor of Chemistry in the Royal Institution of Great Britain.  
 Archbishop Charles Eyre, D.D., vice-president of the Archaeological Society of Glasgow.  
 Rudolf Albrecht Kolliker, Professor of Anatomy in the University of Würzburg.  
 Alexander Ferrier Mitchell, D.D., Professor of Church History in the University of St. Andrews.  
 John Rankine, M.A., Professor of Scots Law in the University of Edinburgh.

**BACHELORS OF DIVINITY (B.D.).**

*November, 1891.*

John Dickson Sinclair, M.A.

*April, 1892.*

- |                               |                               |
|-------------------------------|-------------------------------|
| John Esslemont Adams, M.A.    | William Howie, M.A.           |
| John Easton Black, M.A.       | Joseph Keay Johnston, M.A.    |
| John Boyle, M.A.              | John Macara, M.A.             |
| William M'Kean Campbell, M.A. | James Wallace Maedonald, M.A. |
| David Hedley Gillan, M.A.     | Archibald Black Scott, M.A.   |

**BACHELORS OF LAWS (LL.B.).**

*November, 1891.*

Thomas Holtum Lillie, M.A.

*April, 1892.*

- |                   |                                    |
|-------------------|------------------------------------|
| John Harvey, B.A. | John Martin Littlejohn, M.A., B.D. |
|                   | George Middleton, M.A., B.L.       |

## BACHELORS OF LAW (B.L.).

November, 1891.

Duncan Colquhoun Stewart	Black-	George Middleton, M.A.
lock, M.A.		James Cargill Thompson.
Robert Locke Bremner, M.A.		
	April, 1892.	
John Grant.		James Morton.
William Caird Kerr, M.A.		James Cullen Pollok.
John Peter Mitchell.		John Rankin.

## DOCTORS OF MEDICINE (M.D.).

July, 1891

## I. WITH HONOURS.

Hugh Rhodes, M.B., C.M., England. (Thesis—"Koch's Treatment in Phthisis and Lupus.")

## II. WITH COMMENDATION.

Gilbert Alexander Bannatyne, M.B., C.M., Scotland. (Thesis—"The Treatment of Diphtheria by the injection of the Erysipelas Albumose.")

Andrew Nicholson McGregor, M.B., C.M., Scotland. (Thesis—"Some Notes on the Repair of Bone, with special reference to Transplantation and other artificial aids.")

Andrew Maitland Ramsay, M.B., C.M., Scotland. (Thesis—"Exophthalmic Goitre.")

## III. ORDINARY DEGREE.

Alexander Charles Farquharson, M.B., C.M., Scotland. (Thesis—"Ptomaines: Toxicological, Clinical, Chemical.")

Hugh Girvan, M.B., C.M., Scotland. (Thesis—"A Comparative Examination of Important Cases occurring in Practice.")

Robert Lachlan Pinkerton, M.A., M.B., C.M., Scotland. (Thesis—"Mitral Stenosis—A Clinical Study: with some Conclusions founded on an Observation of 50 Cases.")

William Robertson, M.B., C.M., Scotland. (Thesis—"Nitro-Glycerine as an Accessory to Digitalis.")

James Stevenson, M.B., C.M., Scotland. (Thesis—"Notes and Observations on Cases of Midwifery.")

John Stewart, M.B., C.M., Scotland. (Thesis—"A Clinical Essay on the Treatment of Acute Bronchitis in Children.")

November, 1891.

## I. WITH COMMENDATION.

John Carlyle Johnstone, M.B., C.M., Scotland. (Thesis—"Some Notes on the use of Sulphonal.")

## II. ORDINARY DEGREE.

William Menzies Alexander, M.A., B.Sc., B.D., M.B., C.M., Scotland. (Thesis—"The Physics of Chloroform Inhalation.")

William Bryce, M.B., C.M., Scotland. (Thesis—"Notes on a recent Epidemic of Influenza.")

Andrew Davidson, M.A., M.B., C.M., Scotland. (Thesis—"Affections of the Throat and Glands in Scarlet Fever, with Statistics of 471 cases.")

Andrew Freeland Fergus, M.B., C.M., Scotland. (Thesis—"The relations of Ophthalmology to Medicine and Surgery.")

William Hutchinson, M.B., C.M., Ireland. (Thesis—"Influenza: the Epidemics of 1890 and 1891 compared.")

April, 1892.

William George Barras, M.B., C.M., Scotland. (Thesis—"Phthisis Pulmonalis, considered as an Infectious Disease.")

John Alexander Kennedy, M.A., M.B., C.M., Scotland. (Thesis—"Railway Injuries, with special reference to their Medico-Legal aspect.")

## BACHELORS OF MEDICINE AND MASTERS IN SURGERY

(M.B., C.M.).

*July, 1891.*

## I. HONOURS.

Hugh Galt, Scotland.

Robert Currie Robertson, M.A., "

## II. HIGH COMMENDATION.

John William Logie,	Scotland.	Daniel M'Kenzie,	Scotland.
Daniel Macpherson Taylor, M.A.,	"	Niel Campbell,	"
George Clark Stewart,	"	John Gilmour,	"
John M'Gregor,	"		

## III. COMMENDATION.

Robert William Nairn,	Scotland.	David Smith,	Scotland.
Brownlow Riddell,	"	William James M'Kendrick,	
John Frew,	"	B.Sc.,	"
Robert M'Ghie,	England.	John Yuill,	
James Todd,	Scotland.	George Mervyn Sydenham,	England.

## IV. ORDINARY DEGREE.

James Aitken,	Scotland.	Thomas Milbourne Martin,	Scotland.
William Anderson,	"	William Mason,	"
James Gordon Bain,	England.	John Wilson Mathie,	"
John Fulton Barr, B.Sc.,	Scotland.	John Miller,	"
John Adam Boyd,	"	Robert Walker Moir,	"
Peter Otho Watkin Browne,	Wales.	David Muir,	"
Alexander Campbell,	Scotland.	John Kerr Muir,	"
Herbert Du Cane,	England.	William Murray,	"
David Christie,	Scotland.	Dugald Macdougall,	"
Samuel Cockburn,	"	Donald Neil Macfarlane,	"
David Coutts,	"	Charles Hugh M'Irraith,	"
John Alexander Creighton,	"	M.A.,	Holland.
William Crichton,	"	Neil M'Intyre,	Scotland.
John David,	Wales.	Alexander Lewis M'Leod,	
Hugh Colligan Donald,	Scotland.	M.A.,	England.
William Doyle,	England.	James Henderson Naismith,	Scotland.
William Bertram Ochiltree		Gilbert Park,	"
Ferguson,	Scotland.	Hugh Hamilton Park,	"
David Wyllie Girvan,	"	William Park (Beith),	"
Andrew Goldie,	"	Robert Alexander Paton,	"
John Angus Green,	"	Andrew Robertson,	"
Richard Hamilton,	"	Archibald George Sanders,	"
Yousuf Hamis,	Syria.	Arthur Thomas Scott, M.A.,	"
Robert Home Henderson,	Scotland.	Robert Sharp,	"
Anthony Inglis,	"	Robert Stobo,	"
Robert James,	"	Charles Symington,	"
John Harris Jones,	Wales.	Lewis Dunbar Temple,	"
Owen Gethin Jones,	"	Ebenezer Turner,	"
Robert Robertson Kilpatrick,	Scotland.	Wm. Thompson Merry Wallace,	"
Peter Alexander Laird,	"	David Watson,	"
Charles Lavery,	"	William Watson,	"
David Lloyd,	Wales.	James Laurie White,	"
Matthew Lochhead, B.Sc.,	Scotland.	Martin Whyte,	"
Robert Mortimer Malcolm,	"	James Allan Wilson,	"
James Marr,	"	Robert Wilson,	"
Ernest Louis Marsh,	Ireland.		

<sup>1</sup> Mr. Galt gained the Brunton Memorial Prize of Ten Pounds, awarded to the most distinguished Graduate in Medicine of the year.

*October, 1891.*

<b>I. HIGH COMMENDATION.</b>	
David Lamb,	Scotland.
James William White,	"

**II. ORDINARY DEGREE.**

John Atkinson Harrison,	England.
Peter Paterson,	Scotland.

*November, 1891.*

James Alexander Aitken,	Scotland.	Percy George M'Reddie,	India.
William Barbour,	"	Charles Francis Scott,	Scotland.
Alfred Ernest Evans,	England.	James Stirling, M.A.,	"
David Frame, M.A.,	Scotland.	James Rashid Wortabet,	Syria.
Robert James Marshall,	"	Andre Wylie,	Scotland.
Duncan M'Intosh,	"		

*December, 1891.*

Edwin Arthur Gibson,	Scotland.

*February, 1892.*

**I. COMMENDATION.**

John Gilfillan Ronald,	Scotland.

**II. ORDINARY DEGREE.**

Walter Buchanan Hastings,	Scotland.
William David Rose,	"

*April, 1892.*

William Jackson,	India.

#### MASTERS OF ARTS (M.A.).

*November, 1891.*

**I. WITH HONOURS.**

<i>With First Class Honours in Mathematics and Natural Philosophy.</i>
Horatio Scott Carslaw.
James Holm.

<i>With Second Class Honours in Classics and in Mental Philosophy.</i>
Nicol Macneic.

<i>With Second Class Honours in Mental Philosophy.</i>
John White.

**II. ORDINARY DEGREE.**

Francis Boyd.	John Andrew Macara, B.Sc.
John Calderwood.	Julius Fisher M'Callum.
Thomas Gillies Conochie.	John Mandeville Macfie.
John Miller Cook.	Hector Duncan M'Intyre.
Samuel Donaldson Cowan.	Edward James Primrose.
James Davidson.	George Shaw Stewart.
George Donald.	William Stewart.
Alexander Mitchell Hamilton.	George Walker Taylor.
William Robert Kerr.	William Vallance.
William Charles Loosmore.	David Young (Stranraer).
John M'Ewan Manford.	John Young.

*January, 1892.*

<i>With First Class Honours in Mental Philosophy.</i>
David Donaldson Robertson.

*April, 1892.*

**I. WITH HONOURS.**

<i>With First Class Honours in Mathematics and Natural Philosophy, and</i>
<i>Second Class Honours in Mental Philosophy.</i>
Daniel Lamont.

*With Second Class Honours in Classics.*

John Gillespie Spens.

Alexander Taylor.

**II. ORDINARY DEGREE.**

James Allan.	Alexander M'Dougall.
John Anderson.	Andrew M'Dougall.
James Paterson Baird.	Samuel Macfie.
James Borthwick.	Donald Macgillivray.
Jean Sleath Boyd.	Alexander Mackenzie.
Charles Cairnie.	Joseph Macnaughtan.
Robert Smith Clary.	James M'Queen.
Alexander Cordiner.	James Crawford Paterson.
Alexander Dale.	Robert Henderson Paton.
Benjamin Herbert Dodd.	John Arthur Patrick.
Walter Scobie Findlay.	Alexander Pollock.
James Fullarton.	Harry Seymour Reid.
Andrew Gemmell.	Thomas Reid.
James Hogg Gillespie.	Archibald Aeneas Robertson.
James Hunter Gray, B.Sc.	John Stewart Robertson.
Hugh Archibald Hamilton.	James Russell.
John Stewart Hastie.	George Alexander Stalker.
Adam Howat.	William M'Culloch Steven.
Thomas Hunter.	John Stewart.
Charles Whitehead Hutcheson.	William Stirling.
John Lang.	David Waddell.
John Liddell.	George Pexall Wallace.
Andrew Robb Low.	Andrew Watt.
John Morrison.	

**DOCTOR OF SCIENCE (D.Sc.).***April, 1892.*

John MacCowan, M.A., B.Sc.

**BACHELORS OF SCIENCE (B.Sc.).***July, 1891.**In Engineering Science.*

Hugh Brown Collins, Scotland. | Thomas Thomson Rankin, Scotland.

*November, 1891.***I. WITH HONOURS.***With Honour in Chemistry.**In Physical Science.*

Robert Main.

*With Honour in Civil Engineering.**In Engineering Science.*

Robert Muir Ferrier.

**II. ORDINARY DEGREE.***In Biological Sciences.*

James Paterson MacLaren, M.A., M.B., C.M.

*In Engineering Science.*

William Herbert Shields.

*January, 1892.**In Physical Science.*

James Robert Erskine Murray.

*April, 1892.*

**I. WITH HONOURS.**

*With First Class Honours in Mathematics and Natural Philosophy, and  
Honours in Civil Engineering—*

*In Engineering Science.*

John Dewar Cormack.		James Blacklock Henderson.
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**II. ORDINARY DEGREE.**

*In Engineering Science.*

William Buchanan.		Thomas Francis Ruhm.
George Francis Coulson.		William Sharpe.
George Henry Rock.		William Beattie Venters.

**CERTIFICATES IN ENGINEERING SCIENCE.**

*July, 1891.*

Hugh Brown Collins.		Thomas Thomson Rankin.
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*November, 1891.*

James Fenwick, B.Sc.		William Herbert Shields.
Robert Muir Ferrier.		William Beattie Venters.

*April, 1892.*

Charles Henry Benton.		George Francis Coulson.
John Dewar Cormack.		James Blacklock Henderson.

Buyata Iwata.

**DEPARTMENTAL CERTIFICATES.**

**I.—FOR DEGREE OF B.D.**

FIRST DEPARTMENT—*November, 1891.*

Adams, John Esslemont, M.A.		Howie, William, M.A.
Alexander, David Ritchie, M.A.		Johnston, Joseph Keay, M.A.
Black, John Easton, M.A.		Macara, John, M.A.
Boyle, John, M.A.		Macdonald, James Wallace, M.A.
Gillan, David Hedley, M.A.		Scott, Archibald Black, M.A.

SECOND DEPARTMENT—*April, 1892.*

Adams, John Esslemont, M.A.		Johnston, Joseph Keay, M.A.
Aitken, James Richmond, M.A.		Metcalfe, William, M.A.
Barr, James, M.A.		Macara, John, M.A.
Black, John Easton, M.A.		Macdonald, James Wallace, M.A.
Boyle, John, M.A.		Macnie, Robert Lamond, M.A.
Campbell, William M'Kean, M.A.		Scott, Archibald Black, M.A.
Gillan, David Hedley, M.A.		Vallance, William, M.A.
Howie, William, M.A.		White, John, M.A.

**II.—FOR DEGREE OF M.A.**

1. IN CLASSICAL LITERATURE.

*November, 1891.*

Aitken, George Riddell		Cannon, William Robert
Allan, Thomas Nelson		Carruthers, James
Cairncross, Thomas Scott		Cleland, James William
Campbell, Alex. Fraser		Cranmer, John Graham

Donald, George	MacRobert, Alex. Munro
Donald, William	Nelson, Allan Manson
Drever, James Richan	Nicol, Charles Edward
Duke, John Alex.	Nisbet, Thomas
Dunlop, James Slater	Orr, James
Dunlop, Malcolm	Paterson, John
Edward, James Mitchell	Paton, Robert Henderson
Ferguson, James	Reid, Edward Thomas Scott
Gardner, James Wilson	Robbie, Frank Harper
Gemmell, Andrew	Rodger, James
Gourlay, William Robert	Shaw, John
Grant, John Howitt	Sillars, Joseph
Hamilton, James	Sinclair, John
Hodge, John M'Nie	Spens, John Gillespie (II. Hon.)
Hunter, Andrew	Stewart, Frederick Richardson
*Hunter, Thomas	Strachan, Peter Donald
Law, James	Swan, David
Leishman, Thomas Allan	Taylor, Alexander (II. Hon.)
Lennox, David Neil	Taylor, James Thomson
Logan, John Riddell	Taylor, Thomas Gourlay
Morison, Colin Murdo	*Thomson, Charles William
Morton, William Alex.	*Watt, Andrew
Macara, John Andrew, B.Sc.	Weir, John (Glasgow)
Mackay, William	Weir, John (Dalmuir)
M'Kim, Robert Stewart	Wilson, George Lithgow
M'Lachlan, Andrew	

April, 1892.

Anderson, Thomas Alex. Harvie	Middleton, Arthur Stanley
Anderson, Thomas Randall	*M'Callum, Archibald
Bardwell, Foster H.	*M'Curtain, David Hume
Borthwick, James	Macdonald, Charles
Boyd, William	M'Dougall, Alexander
Brown, Lawrence Robertson	M'Dougall, Andrew
Campbell, Andrew	M'Gilchrist, Archibald Currie
Chalmers, John Miller	Pryde, Robert
Charteris, Archibald Hamilton	Riddell, John
Crum, John George	Robertson, John Stewart
Dewar, James	Robertson, Laurence V. Glyn
*Edgar, Campbell Cowan	Russell, James
Ferguson, Alex. Mungall	Scott, James
*Forsyth, John Macfarlane	*Service, William Jack Nichol
Fulton, John	Simpson, John
Gilchrist, Andrew Scoular	Small, Napier Nonus
Gillies, Alexander	Stirling, William
*Hastie, John Stewart	Stuart, Walter
Higgins, James	Tannahill, John Roy
Howie, Robert	Taylor, Alex. Oswald
Hunter, Archibald	*Tulloch, John L. Constantine
Johnston, Archibald M'Arthur	Webster, David Graham
Leishman, John Stuart	Whyte, John

\* Students whose names are marked with an asterisk distinguished themselves in the examination.

## 2. IN MENTAL PHILOSOPHY.

*November, 1891.*

Barrowman, William	Nicholls, John A.
Conochie, Thomas G.	Paterson, William R.
Cordiner, Alexander	Reid, Harry S.
Cowan, Samuel D.	Russell, James
Dunlop, George A.	Stewart, John
Edgar, Samuel C. B.	Stewart, Robert C.
Fergusson, Robert	Stewart, Walter
Howat, Adam	Stirling, George
Macdonald, John N.	Whyte, John
M'Intyre, Hector D.	Williams, David H.
Maenicol, Nicol (II. Hon.)	Young, John

*April, 1892.*

Alexander, Gilchrist G.	M'Dougall, Neil
Allan, James	Macfie, Samuel
ArNeil, Allan	Macgillivray, Donald
Baird, James P.	M'Gown, George W. T.
Buchanan, Robert M.	Maclauchlan, Francis J.
Caesar, James	M'Leod, John J. H.
Cairnie, Charles	Macleroy, Campbell M.
Cairns, Frank	M'Millan, George A.
Campbell, Alex. Fraser	Macnaughtan, Joseph
Collins, Thomas	M'Queen, James
Connor, John M.	Nisbet, Thomas
Cranmer, John G.	Pagan, Gavin L.
Cunningham, Alexander	Paterson, James Crawford
Dodd, Benjamin H.	Paterson, John Douglas
Drever, James R.	Paton, Robert H.
Findlay, Walter S.	Patrick, John A.
Ford, George T.	Peebles, Guy S.
Forsyth, Walter G.	Reith, Archibald
Francis, James	Rillie, Robert
Gemmell, Andrew	Robertson, Archibald $\text{\AE}$ .
Gibson, James P.	Scott, Samuel
Gillespie, James H.	Spens, John G.
Graham, David	Stalker, George A.
Hamilton, Hugh A.	Steven, William M.
Howell, Alexander R.	Stewart, David M.
Hunter, Thomas	Stirling, William
Hutcheson, Charles W.	Stowell, Herbert
Jerdan, David S.	Struthers, John
John, William	Taylor, Alexander
Kidd, Thomas	Taylor, Thomas G.
Lamont, Daniel (II. Hon.)	Templeton, William S.
Lang, Joseph	Thomson, Charles W.
Meston, William M.	Waddell, Alexander
Moore, Cecil E.	Wallace, Andrew E.
Morris, Richard	Wallace, George P.
Morrison, John	Wardrop, Thomas
Mushet, John	Watt, Andrew
M'Callum, John	

## III. IN MATHEMATICS AND NATURAL PHILOSOPHY.

November, 1891.

Baird, James Paterson	Lamont, Daniel (I. Hon.)
Beard, Charles Bernard	Motherwell, James Stuart
Calderwood, John	M'Callum, Julius Fisher
Cameron, John	Macfie, John Mandeville
Carslaw, Horatio Scott (I. Hon.)	Russell, James
Clark, James Affleck	Stewart, George Shaw
Cook, John Miller	Stewart, Robert
Davidson, James	Stewart, Walter
Gladstone, James M. R.	Taylor, George Walker
Hamilton, Alex. Mitchell	Young, David
Kerr, William Robert	

April, 1892.

Adair, Thomas	O'Brien, James
Allan, James	Nisbet, Thomas
Anderson, Thomas A. H.	Orr, Richard
Boyd, John S.	Paterson, Hamilton P.
Bryan, Thomas A.	Paterson, Janies Crawford
Cairnie, Charles	Paterson, John Douglas
Cordiner, Alexander	Paterson, Robert (Blantyre)
Dodd, Benjamin H.	Patrick, John Arthur
Donald, William	Pollock, Alexander
Dow, Donald N.	Reid, Harry S.
Edwards, James M.	Reid, Thomas
Findlay, Walter S.	Robertson, Archibald Eneas
Fraser, William	Robertson, James D.
Gillespie, James H.	Robertson, John S.
Grey, James H., B.Sc.	Sadler, Robert W. S.
Hamilton, Hugh A.	Spens, John G.
Harvie, William D.	Stalker, George A.
Howat, Adam	Steven, William M'Culloch
Hunter, Andrew	Stewart, Charles W.
Hunter, Thomas	Taylor, Alexander
Huntly, John W.	Templeton, William S.
Kemp, Arnold L.	Thomson, Charles W.
King, Walter	Thomson, John
Martin, William	Waddell, David
Macfie, Samuel	Wardrop, Thomas
Macgillivray, Donald	Watt, Andrew
M'Intyre, Joseph M. B.	Weir, John (Glasgow)
M'Kechnie, Henry D.	Whyte, John
Mackenzie, Alexander	Williams, David Hugh
Macmaster, William	Wilson, John
MacNab, Ian, Joseph	Wilson, Robert

## III. FOR DEGREES IN LAW.

1. FOR DEGREE OF LL.B.

I. IN CIVIL LAW.

October, 1891.

Mackenzie, Alexander Roderick, M.A.	Pattison, David Ballingall, M.A.
	April, 1892.
Cowan, Hugh, M.A.	Littlejohn, John Martin, M.A., B.D.
Hodge, William Benjamin, M.A.	Paul, Walter, M.A.
	Smith, John Campbell, M.A.

## 2. IN LAW OF SCOTLAND.

*October, 1891.*

Allison, John Dunn, M.A.		Barclay, Robert Francis, M.A.
	Pattison, David Ballingall, M.A.	

*April, 1892.*

Harvey, John, B.A.		Lamond, Robert, M.A.
Hodge, William Benjamin, M.A.		Middleton, George, M.A.

## 3. IN CONVEYANCING.

*October, 1891.*

Brown, Charles Herbert, M.A.		Lillie, Thomas Holtum, M.A.
	April, 1892.	

Harvey, John, B.A.		Littlejohn, John Martin, M.A., B.D.
	Middleton, George, M.A.	

## 4. IN PUBLIC LAW.

*October, 1891.*

Allison, John Dunn, M.A.		Lillie, Thomas Holtum, M.A.
Alston, Andrew, M.A.		Mackenzie, Alex. Roderick, M.A.

## 5. IN CONSTITUTIONAL LAW AND HISTORY.

*October, 1891.*

Littlejohn, John Martin, M.A., B.D.
April, 1892.

*Harvey, John, B.A.*

## 6. IN MEDICAL JURISPRUDENCE.

*October, 1891.*

Allison, John Dunn, M.A.		Barclay, Robert Francis, M.A.
Alston, Andrew, M.A.		Brown, Charles Herbert, M.A.
	Littlejohn, John Martin, M.A., B.D.	

*April, 1892.*

Cowan, Hugh, M.A.		Lamond, Robert, M.A.
Harvey, John, B.A.		Paul, Walter, M.A.
	Smith, John Campbell, M.A.	

## II.—FOR DEGREE OF B.L.

## 1. IN LATIN.

*November, 1891.*

Campbell, Archibald		Dennison, Jerome
Brown, Charles William		Tennent, James Hill

*Mitchell, John Peter**April, 1892.**Todd, John Aiton*

## 2. IN GREEK.

*November, 1891.**Brown, Charles William*

## 3. IN LOGIC.

*November, 1891.**Malloch, Donald M'Leod**Stewart, Robert Comrie**Brown, Charles William**April, 1892.**Deunison, Jerome**Forgan, David Lindsay**White, Robert Summers*

## 4. IN MORAL PHILOSOPHY.

*November, 1891.**Hay, Robert Blair**Kay, William Martin**Stewart, Robert Comrie**Watt, Albert Taylor, M.A.**Young, John Ross*

*April, 1892.*

Campbell, Archibald	Dunlop, Edward
Demaison, Jerome	Forgan, David Lindsay
	McFadyen, Archibald

**5. IN ENGLISH LITERATURE.***November, 1891.*

Bruce, William Hendry	Rowan, Archibald
Forgan, David Lindsay	Stewart, Robert Comrie
Hey, Robert Blair	Miller, James Taylor

**6. IN MATHEMATICS.***November, 1891.*

Gentles, Norman	Thompson, James Cargill
	Workman, Robert Alfred
Anderson, Jonathan Ranken	Nimmo, Andrew Reid
Campbell, Archibald	Tannahill, John Thomson

**7. IN NATURAL PHILOSOPHY.***April, 1892.*

Workman, Robert Alfred

**8. IN FRENCH.***October, 1891.*

Dunlop, Edward	Malloch, Donald M'Leod
Healy, Christopher John	White, Robert Summers
Workman, Robert Alfred	

**9. IN GERMAN.****10. IN CIVIL LAW.***April, 1892.*

Laird, James Mungo	Rankin, John
	Sloan, David Norman

**11. IN LAW OF SCOTLAND.***October, 1891.*

Edlington, Patrick F. W.	Pollok, James Cullen
Grant, John	Watt, Albert Taylor, M.A
Cunn, John	M'Cleure, Robert Wilson
Laird, James Mungo	Sloan, David Norman
	Stell, John Semple

**12. IN CONVEYANCING.***April, 1892.*

Grant, John	Pollok, James Cullen
Morton, James	Rankin, John

**13. IN PUBLIC LAW.***October, 1891.*

Cameron, Archibald

**14. IN CONSTITUTIONAL LAW AND HISTORY.***October, 1891.*

Cameron, Archibald

*April, 1892.*

Morton, James

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## 15. IN MEDICAL JURISPRUDENCE.

*October, 1891.*

Edington, Patrick F. W.		Grant, John
		Watt, Albert Taylor, M.A.

*April, 1892.*

McCleure, Robert Wilson		Pollok, James Cullen
		Stiell, John Semple

## 16. IN POLITICAL ECONOMY.

*October, 1891.*

Pollok, James Cullen	
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*April, 1892.*

Grant, John		Gunn, John
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## IV.—FOR DEGREE OF B.Sc.

*Old Regulations.*

## 1. IN LATIN.

## 2. IN GREEK.

## 3. IN LOGIC.

## 4. IN MORAL PHILOSOPHY.

## 5. IN ENGLISH LITERATURE.

*October, 1891.*

Lang, James

## 6. IN MATHEMATICS.

## 7. IN NATURAL PHILOSOPHY.

## 8. IN ANATOMY.

## 9. IN BOTANY.

## 10. IN ZOOLOGY.

*October, 1891.*

MacLaren, James Paterson, M.A., M.B., C.M.

## 11. IN GEOLOGY.

*October, 1891.*

Gibson, William John, M.A.

*April, 1892.*

Holm, Alexander, M.A.

## 12. IN CHEMISTRY.

*October, 1891.**April, 1892.*

Cook, John Miller		Smith, David Thomson, M.A.
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Holm, Alexander, M.A.

## 13. IN PHYSIOLOGY.

*April, 1892.*

Whitehouse, John

## 14. IN CIVIL ENGINEERING AND MECHANICS.

## 15. IN PRACTICAL ENGINEERING.

## 16. IN GEODESY.

*Regulations of 1885.*

## A. IN BIOLOGICAL SCIENCE.

Second Examination—Botany, Zoology.

*October, 1891.*

Cook, William Stewart.

*April, 1892.*

Wallace, Herbert Kidson

## B. IN PHYSICAL SCIENCE.

*April, 1892.*First Examination—Mathematics, Natural Philosophy, Chemistry.  
Parker, Matthew Archibald

## FINAL EXAMINATION.

*November, 1891.*Buchanan, William—Mathematics and Natural Philosophy.  
Main, Robert—Chemistry (Honours).

Murray, James Robert Erskine—Mathematics and Natural Philosophy.

## C. IN ENGINEERING SCIENCE.

## 1. MATHEMATICS.

*April, 1892.*

Cormack, John Dewar (First-Class Honours).

Henderson, James Blacklock (First-Class Honours).

Kirkwood, Allan

Parry, Evan

## 2. NATURAL PHILOSOPHY.

*April, 1892.*

Bruhn, Johannes

Cormack, John Dewar (First-Class Honours).

Coulson, George Francis

Henderson, James Blacklock (First-Class Honours).

Venters, William Beattie

## 3. CHEMISTRY.

*October, 1891.*

Henderson, James Blacklock

Moore, David Muirhead

Sharpe, William

Taylor, David Guilland

*April, 1892.*

Steven, John Wilson

## 4. GEOLOGY.

*October, 1891.*

Henderson, James Blacklock

Parry, Evan

Shields, William Herbert

Venters, William Beattie

*April, 1892.*

Coulson, George Francis

## 5. GEODESY.

*April, 1892.*

Buchanan, William

Guthrie, Alexander G. G.

Hunter, Riotaro Hirano

Machado, Adrian

Muirhead, William

Taylor, David Guilland

## 6. CIVIL ENGINEERING AND MECHANICS.

*October, 1891.*

Coulson, George Francis	Ferrier, Robert Muir (Honours)
	<i>April, 1892.</i>

Brownlee, Hugh Rodger	Hunter, Riotaro Hirano
Buchanan, William	Muirhead, William

Taylor, David Guilland

## 7. PRACTICAL ENGINEERING.

*April, 1892.*

Brownlee, Hugh Rodger	Buchanan, William
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## 8. NAVAL ARCHITECTURE.

*October, 1891.*

Sharpe, William.

*April, 1892.*

Buchanan, William	Taylor, David Guilland
	<i>Regulations of 1890.</i>

## A. IN NATURAL SCIENCE.

First Examination—First Portion —Mathematics, Natural Philosophy.

*October, 1891.*

Lunn, John	Macnair, Norman
	<i>April, 1892.</i>

Anderson, Samuel	Rankin, James
Macewen, John A. C.	Thomson, John

First Examination—Second Portion —Chemistry, Botany, Zoology.

*October, 1891.*

Lang, William Henry	Rankin, James
	Robertson, James Currie, M.A.

Buchanan, Robert	Clark, John
	Clow, William

## B. IN ENGINEERING SCIENCE.

## MATHEMATICS.

*October, 1891.*

Mackillop, Gardiner H.

*April, 1892.*

Aitken, Thomas M.	Kennedy, Robert
Craig, Alex. Gratitude	Mathieson, Thomas O.
Crow, John	Macmillan, Campbell
Forbes, Charles	Reid, John

Sadler, Herbert C.

## NATURAL PHILOSOPHY.

*April, 1892.*

Forbes, Charles	Spear, Lawrence
	Watt, Richard M.

## CHEMISTRY.

*October, 1891.*

Denny, Leslie	Mathieson, Thomas O.
	<i>April, 1892.</i>

Blair, George	Hamilton, Patrick
Forbes, Charles	M'Ilwaine, John Elder
Gray, John	Williams, Llewellyn W.

## CIVIL ENGINEERING AND MECHANICS.

*April, 1892.*

Crawford, James Buchanan	Rock, George Henry
Forbes, Charles	Ruhm, Thomas Francis
	Sidler, Herbert C.

## ENGINEERING DRAWING AND CALCULATIONS.

*April, 1892.*

Adam, Matthew Atkinson	Forbes, Charles
Bain, Alexander	Gourlay, Charles
	Kennedy, Robert

## NAVAL ARCHITECTURE.

*April, 1892.*

Rock, George Henry	Ruhm, Thomas Francis
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## GEOLOGY.

*April, 1892.*

Bain, Alexander

## GEODESY.

*April, 1892.*

Bain, Alexander	Craig, Alex. Gratitudo
	Mackillop, Gardiner H.

## PRELIMINARY EXAMINATION IN ARTS FOR DEGREE OF M.A.

The following passed in Latin :—

Adams, George Stewart	Howie, Robert	Parkin, William L.
Allan, William	Jordan, William	Pringle, William M. R.
Bannatyne, Andrew S.	Kinnis, James Cairns	Reid, James Alexander
Bell, William Gregory	Lamb, George	Shaughnessy, John
Boyd, William	Menzies, Joseph Hume	Smith, Alexander
Darroch, Neil Donald	Middleton, Arthur S.	Smith, James
Gillespie, James	Muir, Adam	Templeman, James M.
Gillies, William King	M'Clure, James	Wallace, John
Goodman, Hyam	Macdonald, Coll Arch.	Whyte, Robert Orr
Green, James Garden	Maclean, George Toold	Young, John
Hair, James		

The following passed in Greek\* :—

Adams, George Stewart	Hair, James	Macdonald, Coll Arch.
Allan, William	Howie, Robert	M'Gregor, Chris. Strang
Bannatyne, Andrew S.	Jordan, William	Parkin, William L.
Bell, William Gregory	Kinnis, James Cairns	Partison, Richard Norval
Boyd, William	Loggie, William Wright	Pringle, William M. R.
Darroch, Neil Donald	Menzies, Joseph Hume	Reid, James Alexander
Gillespie, James	Middleton, Arthur S.	Templeman, James M.
Gillies, William King	Muir, Adam	Wallace, John
Goodman, Hyam	M'Clure, Charles Russell	Whyte, Robert Orr
Gray, James Neilson	M'Clure, James	Young, John

The name of Allan M. Nelson was inadvertently omitted from the list in the Calendar for 1891-92.

The following passed in Mathematics :

Adams, George Stewart	Green, James Garden	M'Gregor, Alexander
Allan, William	Hair, James	M'Gregor, Chris. Strang
Bauchop, Jeffrey D.	Howie, Robert	M'Lean, George Todd
Bell, William Gregory	Jackson, Harry	Parkin, William L.
Bottomley, Allen W. T.	Jordan, William	Pattison, Richard Norval
Boyd, William	Kinloch, Thomas Fleming	Pringle, William M. R.
Callejon, Ventura de	Kinnis, James Cairns	Reid, James Alexander
Darroch, Neil Donald	Lamb, George	Shaughnessy, John
Gillespie, James	Loggie, William Wright	Smith, Alexander
Gillies, William King	Menzies, Joseph Hume	Smith, James
Girvan, John	Middleton, Arthur S.	Templeman, James M.
Girvan, William	Middleton, John	Wallace, John
Goodman, Hyam	Muir, Adam	Whyte, Robert Orr
Gray, James Neilson	M'Clure, James	Young, John

#### ENTRANCE EXAMINATION IN THE FACULTY OF ARTS.

The following satisfied the Examiners :

Adams, George Stewart	Goodman, Hyam	M'Clure, Charles Russell
Aikman, Matthew	Gray, Robert Arthur	M'Clure, James
Baxter, John Milne	Hair, James	M'Neil, Charles
Blair, George MacLellan	Hamilton, Adam	Nelson, Thomas
Brown, William A.	Jackson, Harry	Reid, William
Cameron, William Gyles	King, James Edward	Shaughnessy, John
Dawson, Frederick L.	Kinnis, James Cairns	Shearer, John
Dougall, Robert	Lang, William Whyte	Stewart, Adam Bell
Fraser, Alexander	Leys, Norman M'Lean	Todd, John Aiton
Gillies, William King	Loggie, William Wright	Willans, William
Girvan, John	Lorimer, William	Young, John
Girvan, William	Menzies, Joseph Hume	

#### BURSARY EXAMINATION.

*October, 1891.*

The figure (2) denotes students of the second year.

The following candidates distinguished themselves in the Competition, viz. :—

- |                                 |                             |
|---------------------------------|-----------------------------|
| 1. James Gillespie              | 15. William Watson (2)      |
| 2. John S. Thomson (2)          | 16. John Young              |
| 3. William Gow (2)              | 17. William K. Gillies      |
| 4. Robert Howie                 | 18. Samuel H. M'Ewing (2)   |
| 5. Archibald C. M'Gilchrist (2) | 19. Joseph H. Menzies       |
| 6. William M. R. Pringle        | 20. Mungo M. Fairgrieve (2) |
| 7. William Jordan               | 21. Adam Muir               |
| 8. John Stewart (2)             | 22. James A. Reid           |
| 9. William G. Bell              | 23. William A. Morton (2)   |
| 10. Hyam Goodman                | 24. Adam B. Stewart         |
| 11. William Boyd                | 25. Archibald M'Callum (2)  |
| 12. Roderick M. Matheson (2)    | 26. David H. M'Curtain (2)  |
| 13. William H. Low              | 27. John R. Tannahill (2)   |
| 14. Robert S. Macmorran (2)     | 28. James Weir              |

- |                            |                             |
|----------------------------|-----------------------------|
| 29. James M. Templeman     | 44. Charles R. M'Clure      |
| 30. William L. Parkin      | 45. James G. Green          |
| 31. James M'Clure          | 46. John G. Crum (2)        |
| 32. Joseph Shillinglaw (2) | 47. James Smith             |
| 33. James C. Kinnis        | 48. George Lamb             |
| 34. Robert O. Whyte        | 49. Christopher S. M'Gregor |
| 35. James Hair             | 50. Neil D. Darroch         |
| 36. Lewis M'Lachlan        | 51. William W. Loggie       |
| 37. Thomas Nelson          | 52. George T. Maclean       |
| 38. George S. Adams        | 53. T. M. Fletcher          |
| 39. William Allan          | 54. James N. Gray           |
| 40. Arthur S. Middleton    | 55. Alexander Smith         |
| 41. Thomas Carruthers (2)  | 56. Richard N. Pattison     |
| 42. Thomas Scott (2)       | 57. Robert Simpson (2)      |
| 43. John Wallace           | 58. Alexander M. Wright (2) |
- 

**UNIVERSITY PRIZES.****I.—For Essays:—**

1. In Natural Philosophy, the CLELAND GOLD MEDAL, for the best Experimental Investigation on the effect produced by Mechanical Hardening on the Electric Resistance of Metals.

James H. Gray, B.Sc.

2. In Mental Philosophy, the UNIVERSITY SILVER MEDAL, for the best Essay on "Recent Investigations in Psycho-physics."

David Graham.

3. The GARTMORE GOLD MEDAL, for the best Essay on "State Interference with Labour."

Gilchrist G. Alexander.

4. A COULTER PRIZE of Five Pounds, for the best Latin Essay on "The Effect of Stoicism upon Roman Law and Roman Character."

Robert G. Nisbet.

5. The RAE WILSON GOLD MEDAL, for the best Essay on "The Messianic Consciousness of Jesus in relation to the Messianic ideas of His time."

William Thomson, M.A.

6. The HENDERSON PRIZE of Twenty Guineas, for the best Essay on "The Sabbathism of Hebrews iv. 9."

John M. Littlejohn, M.A., B.D.

**II.—For Examination:—**

1. An ARNOTT PRIZE of Fifteen Pounds, for Examination in General Physics, open to Students of the First and Second Years of their Medical Studies.

Joshua Ferguson, M.A.

2. An ARNOTT PRIZE of Twenty-five Pounds for Examination in Physiological Physics, open to Students of the Third and Fourth Years of their Medical Studies.

William S. Cook and David F. Harris, B.Sc.—equally.

3. The FINDLATER (DIVINITY) SCHOLARSHIP, value Thirty-eight Pounds, for an Examination in Hebrew, New Testament Exegesis, and Apologetics.

William M'Kean Campbell, M.A.

4. The JAMIESON PRIZE, value Ten Pounds, for an Examination in Hebrew, New Testament Exegesis, and Apologetics.

William Howie, M.A.

5. The MACFARLAN and COOK TESTIMONIAL PRIZE of Twenty-one Pounds. Open to Theological Students of Three Years' Standing. Examination in Greek, Moral Philosophy, Hebrew, Church History, and Divinity.

David H. Gillan, M.A.

6. The THOMAS LOGAN MEDAL and PRIZE to the most distinguished Graduate in Arts of the year (1891).

James Holm, M.A.; with First-class Honours in Mathematics and Natural Philosophy.

7. The BRUNTON MEMORIAL PRIZE, value Ten Pounds, given to the most distinguished Graduate in Medicine of the year (1891).

Hugh Galt, M.B., C.M.

#### *CLASS PRIZES.*

### *Faculty of Theology.*

#### DIVINITY.

PROFESSOR WILLIAM P. DICKSON, D.D., LL.D.

SENIOR CLASS.—

#### I.—Students of the Third Year:—

For Excellence in Written Examinations.

1. William Thomson, M.A., Kilmarnock
2. William Howie, M.A., Galston, Ayrshire
3. John White, M.A., Partick
4. William M'Kean Campbell, M.A., Bishopbriggs
5. Archibald Black Scott, M.A., Glasgow

#### II.—Students of the Second Year:—

For Excellence in Written Examinations.

1. James P. Wilson, M.A., St. Quivox, Ayr
2. John B. Mackenzie, M.A., Alexandria } Equal
3. Gavin Warnock, M.A., Wishaw }
4. Thomas Cook, Paisley
5. Hugh Young Arnott, M.A., Kinloch, Blairgowrie } Equal
6. William S. Brownlee, M.A., Rutherglen }
7. Hugh Climie, Old Cumnock

Dowanhill Prizes of £21 and £10 10s. for Elocution.

1. Archibald Stuart, Glasgow
2. John B. Mackenzie, M.A., Alexandria

JUNIOR CLASS.

For Excellence in Written Examinations.

1. John M'Gilechrist, M.A., Bowmore, Islay } Equal
2. John Hamilton Pagan, M.A., Bothwell }
3. Donald D. Macdonald, M.A., Kilmalcolm
4. Peter Macnab, Paisley
5. David S. Merrow, M.A., Govan

## DIVINITY AND BIBLICAL CRITICISM.

PROFESSOR WILLIAM STEWART, D.D.

## I. WRITTEN EXAMINATIONS:

## SENIOR DIVISION.

1. William M. Campbell, M.A., Bishopbriggs
  2. William Howie, M.A., Galston, Ayrshire
  3. John Boyle, M.A., Farnell, Brechin
  4. William Metcalfe, M.A., Paisley
  5. Archibald B. Scott, M.A., Glasgow
- Proxime accesserunt*—John E. Black, M.A., Greenock; David H. Gillan, M.A., Carmunnock.

## JUNIOR DIVISION.

1. William Thomson, M.A., Kilmarnock
2. James P. Wilson, M.A., St. Quivox, Ayr
3. Hugh Y. Arnott, M.A., Kinloch, Blairgowrie

*Proxime accesserunt*—William S. Brownlee, M.A., Rutherglen; Gavin Warnock, M.A., Wishaw; John B. Mackenzie, M.A., Alexandria, Dumbartonshire.

## II.—ESSAYS:

1. James W. Macdonald, M.A., Logierait, Perthshire
2. William Metcalfe, M.A., Paisley
3. John E. Black, M.A., Greenock

*Proxime accesserunt*—Adam S. Hempseed, Partick; Jervis C. Shanks, Glasgow; William M. Campbell, M.A., Bishopbriggs; Archibald B. Scott, M.A., Glasgow; William S. Brownlee, M.A., Rutherglen.

## ORIENTAL LANGUAGES.

PROFESSOR JAMES ROBERTSON, D.D.

## I.—SENIOR HEBREW CLASS.

1. James P. Wilson, M.A., St. Quivox, Ayr
2. Hugh Young Arnott, M.A., Kinloch, Blairgowrie
3. William S. Brownlee, M.A., Rutherglen
4. Robert John Paul, M.A., Cardross, Dumbartonshire
5. Gavin Warnock, M.A., Wishaw
6. Peter Melville, B.D., Nova Scotia.

## SPECIAL PRIZES.

*For Written Exercises during the Session*—Peter Melville, B.D. *For Summer Reading*—Hugh Y. Arnott, M.A.; Robert J. Paul, M.A.

## II.—JUNIOR HEBREW CLASS.

1. Donald D. Macdonald, M.A., Kilmalcolm
2. James Wallace, Crosshill
3. John McGilechrist, M.A., Bowmore, Islay
4. John H. Pagan, M.A., Bothwell
5. Adam Nelson, M.A., Glasgow
6. David S. Merrow, M.A., Govan
7. John Morrison, Govan

## CHURCH HISTORY.

PROFESSOR ROBERT HERBERT STORY, D.D.

## SENIOR CLASS.

1. John White, M.A., Partick
2. William Howie, M.A., Galston, Ayrshire
3. Archibald B. Scott, M.A., Glasgow
4. Robert L. Boyd, M.A., Dalserf
5. William M'K. Campbell, M.A., Bishopbriggs

*Proxime accesserunt* —William Metcalfe, M.A., Paisley ; William S. Brownlee, M.A., Rutherglen ; James W. Macdonald, M.A., Logierait, Perthshire ; David H. Gillan, M.A., Carnunnock ; John E. Black, M.A., Greenock ; and Gavin Warnock, M.A., Wishaw—equal.

## JUNIOR.

1. David Young, Strathaven
2. John H. Pagan, M.A., Bothwell
3. John M'Gilchrist, M.A., Bowmore, Islay
4. Peter Macnab, Paisley
5. William H. Shannon, Greenock

*Proxime accesserunt* —David S. Merrow, M.A., Govan ; Adam Nelson, M.A., Glasgow ; John Morrison, Govan ; David Melville Stewart, Lenzie ; Donald D. Macdonald, M.A., Kilmalcolm.

## Faculty of Law.

## CIVIL LAW.

PROFESSOR ALEXANDER MOODY STUART, Advocate.  
For Eminence in the Class Examinations.

1. \*Andrew G. Murray, B.L.
2. \*John Martin Littlejohn, M.A., B.D.
3. { \*John Dunn Allison, M.A. } Equal  
    { \*John Bartholomew, M.A. }
5. { Alexander Mitchell Hamilton, M.A. } Equal  
    { John Rankin }
7. James Crawford Findlay, M.A.
8. Hugh Cowan, M.A.
9. Walter Paul, M.A.

The \* denotes the Prizemen.

## SCOTS LAW.

PROFESSOR ALEXANDER MOODY STUART, Advocate.

## I.—For Eminence in Class Examinations :—

1. \*David M'Cracken (Robert Ross Prize)
2. \*Francis William Harvey (Dean of Faculty's Prize)
3. \*John Hay Fulton
4. \*William Mackay Lennox
5. \*Robert Lamond, M.A.
6. \*William S. M'Millan

7. Archibald Reid
8. Robert H. Hodgson
9. George Mitchell
10. John E. C. Milligan
11. George Dunlop
12. John Gunn
13. Peter Allan      | Equal  
| James A. M. Hill
15. William Mackenzie
16. Claude William Jeffrey
17. John Mowat Macnair      | Equal  
| David More

The \* denotes the Prizemen.

II.—The Prizes given by the Faculty of Procurators in Glasgow for Eminence in a Special Examination on the Subjects of the Course were awarded to:

1. William Mackay Lennox
2. John Hay Fulton
3. David M Cracken
4. Archibald Reid
5. George Kerr
6. John Mowat Macnair

The following Students distinguished themselves in this Examination, viz. :

7. Francis William Harvey
8. William S. M'Millan
9. Claude William Jeffrey
10. Robert Lamond, M.A.
11. Peter Allan
12. George Dunlop

#### CONVEYANCING.

PROFESSOR JAMES MOIR.

Ordinary Class Examinations.

Prizemen :

1. Herbert C. Boyd, M.A., Portsoy (Robert Ross Prize)
2. 3. John M. Littlejohn, M.A., B.D., Glasgow  
| John Wyllie, Lennoxtown
- (Dean of Faculty's Prize and First Class Prize Divided)
  4. Archibald M. Young, Greenock
  5. Alfred Scobie, M.A., Glasgow

Eminently Distinguished :—

6. Duncan Cram, Callander
7. James Morton, Carrickfergus
8. Charles F. P. Fraser, M.A., Glasgow
9. John Grant, Glasgow
10. James Miller, Rutherglen
11. William J. Robertson, Stirling
12. John Hurll, Glasgow
13. James Boyd Stevenson, Sheffield
14. John Peat, Bridge of Allan
15. Malcolm D. Macpherson, M.A., Inveraray
16. Robert Francis Barclay, M.A., Glasgow
17. James Bell, Airdrie

## Special:

David B. Pattison, M.A., Glasgow

Examination for Prizes given by the Faculty of Procurators of Glasgow.  
Prizemen :

1. Archibald M. Young
2. Herbert C. Boyd, M.A.
3. John Wyllie

## Eminently Distinguished :

4. Charles F. P. Fraser, M.A.
  - 5, 6. f Alfred Scobie, M.A.  
John Grant
  7. James Morton
  8. Duncan Cram
  9. John M. Littlejohn, M.A., B.D.
  10. John Peat
  11. William J. Robertson
  12. James Miller
  13. Malcolm D. Macpherson, M.A.
- 

## FORENSIC MEDICINE.

*Summer Session, 1891.*

PROFESSOR PIERCE ADOLPHUS SIMPSON, M.A. (Cantab.), M.D.

WILLIAM HUNTER MEDAL—John M. Littlejohn, M.A., B.D.

FIRST-CLASS CERTIFICATES OF MERIT (alphabetically arranged).

Robert F. Barclay, M.A.	Robert Lamond, M.A.
Herbert C. Boyd, M.A.	Walter Nelson

---

## Faculty of Medicine.

## MEDALS AND CERTIFICATES OF MERIT.

## FORENSIC MEDICINE.

PROFESSOR P. A. SIMPSON, M.A. (Cantab.), M.D.

*Summer, 1891.*

WILLIAM HUNTER MEDAL—John M'Donald, M.A.

FIRST-CLASS CERTIFICATES OF MERIT (alphabetically arranged).

William C. Allardice	Hugh Galt
James Carslaw, M.A.	John Morton
David Charters	Robert C. Robertson, M.A.
Archibald S. Dick	Charles Wilson

SECOND-CLASS CERTIFICATES OF MERIT (alphabetically arranged).

John Don, M.A.	James M'Glashan
James Fisher Frew	Percy Hope Murray
George L. Kerr	Robert E. Newton
John W. Logie	John Paterson, M.A.
Alexander L. Macleod, M.A.	Daniel M. Taylor, M.A.
Malcolm Macnicol, M.A.	James Murray Young

## DISEASES OF WOMEN.

PROFESSOR WILLIAM LEISHMAN, M.D.

*Summer Session, 1891.*

## FIRST-CLASS CERTIFICATES (in order of merit).

MEDALLIST—Hugh Galt.

George C. Stewart	Equal	John W. Logie	} Equal
James Todd		Robert W. Nairn	
Robert C. Robertson, M.A.		Alfred E. Evans	

## SECOND-CLASS CERTIFICATES (alphabetically arranged).

Peter O. W. Brown	David Lamb
John Alexander Creighton	Charles H. M'Iraith, M.A.
John Don, M.A.	Alexander L. Macleod, M.A.
James G. Duncanson	Peter Paterson
John Frew	Brownlow Riddell
John Green	George M. Sydenham
Walter B. Hastings	James L. White
Robert H. Henderson	James W. White
William Jackson	William Young
Peter A. Laird	John Yuill

## MIDWIFERY.

PROFESSOR WILLIAM LEISHMAN, M.D.

## FIRST-CLASS CERTIFICATES (in order of merit).

MEDALLIST—John Morton.

Robert E. Newton	James Carslaw, M.A.	} Equal
John M'Donald, M.A.	Charles Wilson	
William J. Richard, M.A.	George M'Feat	

## SECOND-CLASS CERTIFICATES (alphabetically arranged).

Robert Bishop	Hugh Lawrie
John J. Boyd	James B. Littlejohn
David Charters	Alexander H. M'Cracken
Robert Cochrane	Duncan Macdonald
Alexander R. Ferguson	Peter C. MacRobert
Alfred Forrest, M.A.	John Paterson, M.A.
James B. Hartley	Leonard A. Rowden
William A. Kirkwood	Robert Taylor

## MATERIA MEDICA AND THERAPEUTICS.

PROFESSOR MATTHEW CHARTERIS, M.D.

## FIRST-CLASS CERTIFICATES (in order of merit).

MEDALLIST—Campbell S. Marshall.

James D. O. Wilson	Gavin M'Callum
John J. Urwin	Robert R. Manners
James Thomson	Thomas M'Nay
Johnstone Brown	Malcolm A. M. Sinclair

## SECOND-CLASS CERTIFICATES (in order of merit).

James B. Millar	} Equal	James Clark
Allan M. Robertson		Peter Marshall
Alexander J. Brownlee	} Equal	George S. Illingworth
Peter D. Buchanan		William L. Jones
Robert Y. Aitken	} Equal	Thomas B. Gilchrist
Robert Boyd		Edward P. Sinclair
James Sandilands		William Irwin

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## PRACTICAL PHARMACY.

*Summer Session, 1891.*

PROFESSOR MATTHEW CHARTERIS, M.D.

## WILLIAM HUNTER MEDALS AND FIRST-CLASS CERTIFICATES

James Murray Young	} Equal
Campbell S. Marshall	

## FIRST-CLASS CERTIFICATES (in order of merit).

James Thomson	} Equal	Hugh Robertson
John J. Urwin		Robert Y. Aitken
James D. O. Wilson	} Equal	Robert Boyd
Robert R. Newton		Andrew J. Laird
William S. Young	} Equal	Hugh Lawrie
John M'Kie		

## SECOND-CLASS CERTIFICATES (in order of merit).

Gavin M'Callum	} Equal	Peter M'Bryde
Archibald Revie		Alexander J. Brownlee
John Cumming	} Equal	Malcolm A. M. Sinclair
Thomas M'Nay		James Fullarton
Donald M. M'Rae	} Equal	Abdullah Aburachman
John J. Carruthers		James L. Watson

---

## PRACTICE OF MEDICINE.

PROFESSOR WILLIAM T. GAIRDNER, M.D., LL.D.

THE WILLIAM CULLEN MEDAL—James Carslaw, M.A., Helensburgh.

## FIRST-CLASS CERTIFICATES (in order of merit).

John Paterson, M.A., Glasgow
John J. Boyd, Glasgow
John H. Teacher, M.A., Glasgow
Charles Wilson, Drymen, Stirlingshire
Alfred A. Young, M.A., Glasgow
Robert Bishop, Glasgow

## SECOND-CLASS CERTIFICATES (in alphabetical order).

John L. Howie, Pollokshaws, Glasgow
George L. Kerr, Crosshill, Glasgow
Hugh Lawrie, Dreghorn, Ayrshire
James B. Littlejohn, Garvagh, Ireland
Percy H. Murray, Glasgow
Peter M'Bryde, Glasgow
George M'Feat, Govan, Glasgow

Malcolm Maenicol, M.A., Dunoon  
 Robert E. Newton, Rock Ferry, Cheshire  
 James J. Robb, Paisley  
 Leonard A. Rowden, Lenzie, Glasgow  
 John Barr Stevens, Renfrew  
 Robert Taylor, Kilmarnock, Ayrshire  
 Andrew Wauchope, Glasgow

## CLINICAL MEDICINE.

PROFESSOR WILLIAM T. GARDNER, M.D., LL.D.

THE WILLIAM CULLEN MEDAL—James Cartshaw, M.A., Helensburgh.

*Proxime accessit*—John Morton, Newmilns, Ayrshire

## FIRST-CLASS CERTIFICATES (in order of merit).

John Morton, Newmilns, Ayrshire  
 Equal { Robert E. Newton, Rock Ferry, Cheshire  
           { John H. Teacher, M.A., Glasgow

SPECIAL PRIZE (for Notes of Clinical Lectures and Demonstrations during the Session)—John C. Young, Stepps Road, Glasgow

## SECOND-CLASS CERTIFICATES (in alphabetical order)

Henry N. Gardiner, Shawlands, Glasgow  
 Robert Grieve, M.A., Glasgow  
 David F. Harris, B.Sc., Edinburgh  
 John L. Howie, Pollokshaws, Glasgow  
 Hugh Kerr, M.A., Kilbirnie, Ayrshire  
 James D. R. Mouro, M.A., Arbroath  
 George McFeat, Govan, Glasgow  
 William N. Sime, Dundonald, Ayrshire  
 John Barr Stevens, Renfrew  
 Andrew Wauchope, Glasgow  
 Thomas Wright, Glasgow  
 Alfred A. Young, M.A., Glasgow  
 John C. Young, Stepps Road, Glasgow

## CLINICAL MEDICINE.

PROFESSOR THOMAS MC'CALL ANDERSON, M.D.

*Summer Session, 1891.*

## FIRST-CLASS CERTIFICATES (in order of merit).

## SENIOR DIVISION.

- |                    |                           |
|--------------------|---------------------------|
| 1. William Young   | 4. Robert McGhee          |
| 2. John Don, M.A.  | 5. James Murray Young     |
| 3. John McGregor   | 6. John David             |
| 4. Ebenezer Turner | 7. Malcolm Maenicol, M.A. |
| 5. David Harris    | 8. Andrew Findlay         |

## JUNIOR DIVISION.

- |                       |                     |
|-----------------------|---------------------|
| 1. James D. O. Wilson | 3. William L. Jones |
| 2. Hamilton C. Marr   |                     |

*Winter Session, 1891-92.*

## SENIOR DIVISION.

MEDALLIST—Robert Bishop.

## FIRST-CLASS CERTIFICATES (in order of merit).

- |                          |                             |
|--------------------------|-----------------------------|
| 1. John M'Donald, M.A.   | 4. William J. Richard, M.A. |
| 2. Thomas Kirkwood, M.A. | 5. William M'Walter         |
| 2. William L. Brown      | 5. Alex. Robert Ferguson    |
| 3. Robert Taylor         | 6. James J. Robb            |

## JUNIOR DIVISION.

MEDALLIST—Johnstone Brown.

## FIRST-CLASS CERTIFICATES (in order of merit).

- |                         |                           |
|-------------------------|---------------------------|
| 1. James Thomson        | 5. Hamilton Clelland Marr |
| 2. Campbell S. Marshall | 5. Peter M'Bryde          |
| 2. Leonard A. Rowden    | 6. Thomas Colvin          |
| 3. Robert Y. Aitken     | 6. Hugh Lawrie            |
| 4. George L. Kerr       | 7. John J. Urwin          |

## SURGERY.

PROFESSOR SIR GEORGE H. B. MACLEOD, M.D., LL.D.

## SENIOR DIVISION.

MEDALLIST—John Morton.

## FIRST-CLASS CERTIFICATES (in order of merit).

- |                                      |         |
|--------------------------------------|---------|
| James Carslaw, M.A.                  | ) Equal |
| John M'Donald, M.A.                  | ) Equal |
| Leonard A. Rowden (for Written only) |         |
| Charles Wilson                       |         |
| William J. Richard, M.A.             |         |
| Malcolm Maenicol, M.A.               |         |
| George B. Buchanan, B.A. (Cantab.)   |         |
| Hamilton C. Marr                     |         |

## HIGH COMMENDATION (alphabetically).

- |                        |                         |
|------------------------|-------------------------|
| Archibald P. Campbell  | James D. R. Monro, M.A. |
| Thomas Divine          | Robert E. Newton        |
| William Fulton         | John Paterson, M.A.     |
| George L. Kerr         | William N. Sime         |
| James B. Littlejohn    | John H. Teacher, M.A.   |
| Hugh Lawrie            | Andrew Wauchope         |
| Alexander S. M'Pherson | Alfred A. Young, M.A.   |
| Alexander H. M'Cracken |                         |

## JUNIOR DIVISION.

MEDALLIST—Thomas Colvin.

## FIRST-CLASS CERTIFICATES (in order of merit).

- |                        |         |
|------------------------|---------|
| Alexander S. Robertson |         |
| James M'Glashan        | ) Equal |
| Henry A. Pattullo      |         |

## HIGH COMMENDATION (alphabetically).

- |                          |                        |
|--------------------------|------------------------|
| William S. Cook          | John F. R. Gairdner    |
| John M. Cowan, B.A.      | James F. Gemmill, M.A. |
| Alexander Dingwall, M.A. | Robert Howie           |
| John W. Findlay          | Arthur Lawton          |

## CLINICAL SURGERY.

PROFESSOR SIR GEORGE H. B. MACLEOD, M.D., LL.D.

## SENIOR DIVISION.

MEDALLIST—Robert Guy.

FIRST-CLASS CERTIFICATES.

David A. Dewar | Alexander J. M'Kechnie

HIGH COMMENDATION (alphabetically).

Andrew Findlay | Ernst D. S. Heyliger

Norman S. Jeffrey

## JUNIOR DIVISION.

MEDALLIST—James F. Gemmill, M.A.

FIRST-CLASS CERTIFICATES (in order of merit).

Thomas W. Bayne | John Guy  
William D. Miller | Equal | John E. Adam  
Edward P. Sinclair | George S. Illingworth

HIGH COMMENDATION (alphabetically).

John Brownlee, M.A. | Alexander MacLennan  
Edward N. Burnett | Robert Morton  
Daniel Ferguson | Hugh S. B. Nisbet  
William D. Findlay | James C. Robertson, M.A.  
Albert A. Finkelstein | Hugh W. Thomson

## CLINICAL SURGERY.

PROFESSOR GEORGE BUCHANAN, M.A., M.D., LL.D.

## SENIOR DIVISION.

UNIVERSITY MEDAL—George N. Turner.

FIRST-CLASS CERTIFICATE—Charles Wilson.

## JUNIOR DIVISION.

UNIVERSITY MEDAL—Cuthbert Nairn

FIRST-CLASS CERTIFICATES (in order of merit).

1. Malcolm Watson | 4. John H. Martin, M.A.  
2. Thomas J. Forbes | 5. John M. Cowan, B.A. (Cantab.)  
3. William B. Edwards | 6. Henry A. Patullo

## INSTITUTES OF MEDICINE.

PROFESSOR JOHN GRAY M'KENDRICK, M.D., LL.D., F.R.S.

JOHN HUNTER MEDALS AND FIRST-CLASS CERTIFICATES.

James F. Gemmill, M.A. } Equal  
Alexander MacLennan } Equal

FIRST-CLASS CERTIFICATES (in order of merit).

James C. Robertson, M.A. | Malcolm Watson  
Herbert K. Wallace | John Brownlee, M.A.

SECOND-CLASS CERTIFICATES (in order of merit).

Robert Morton | William H. Lang  
Harry A. Patullo | David Glen  
Peter L. L. Craig, M.A. | Farquhar Macrae

## PRACTICAL PHYSIOLOGY.

*Summer, 1891.*

JOHN HUNTER MEDAL AND FIRST-CLASS CERTIFICATE.

John J. Urwin

## FIRST-CLASS CERTIFICATES (in order of merit).

James D. O. Wilson	Clarence B. Harrison
Gavin M'Callum	James Thomson
Alexander J. Brownlee	John F. R. Gairdner
John W. Findlay	

## ANATOMY.

PROFESSOR JOHN CLELAND, M.D., LL.D., D.Sc., F.R.S.

## SENIOR CLASS.

MEDAL—Robert W. Forrest.

## FIRST-CLASS CERTIFICATES OF MERIT.

Alexander MacLennan	James C. Robertson, M.A.
Peter P. Petrie, M.A.	James F. Gemmill, M.A.

## SECOND-CLASS CERTIFICATES OF MERIT.

Robert Morton	William P. Porter
	Edward N. Burnett

## JUNIOR CLASS.

MEDAL—Joshua Ferguson, M.A.

## FIRST-CLASS CERTIFICATES OF MERIT.

William Macleod	
John M'E. Manford, M.A.	}
John M. W. Morison	Equal

James Findlay

## SECOND-CLASS CERTIFICATES OF MERIT.

James D. Graham	
James M'Clure	}
James E. F. Stewart	Equal
William Scobie, B.D.	}
Henry A. Watson, M.A.	Equal
William Lawson	
Ernest A. Walker, M.A.	}
Anthony Vost	Equal
Robert B. Barr	
George A. Brown	}
Adam C. Muir	Equal
John R. G. Phillips	

## DEVELOPMENT AND SURGICAL ANATOMY.

*Summer, 1891.*

## PRIZES.

1. John J. Urwin	2. James D. O. Wilson
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## CERTIFICATES OF MERIT (in order of merit).

Malcolm A. M. Sinclair	Campbell S. Marshall
James Clark	Gavin M'Callum
Willian S. Cook	Robert Y. Aitken
John Patrick, M.A.	James Hunter
	Johnstone Brown
	John F. R. Gairdner

## NATURAL HISTORY.

PROFESSOR JOHN YOUNG, M.D.

## ZOOLOGY.

*Summer, 1891.*

WILLIAM HUNTER MEDAL AND FIRST-CLASS CERTIFICATE.

William K. Hutton, M.A.

## SECOND-CLASS CERTIFICATES.

William Wallace		Peter S. Clark
James F. Gemmill, M.A.		John Clark

*Winter Session, 1891-92.*

WILLIAM HUNTER MEDAL.

William Scobie, B.D.

## SECOND-CLASS CERTIFICATES.

Samuel D. Cowan		William Lawson
Henry A. Watson, M.A.		David Baird, M.A.
David C. Kirkhope		Ian G. P. Alston

## PRACTICAL ZOOLOGY.

*Summer, 1891.*

WILLIAM HUNTER MEDAL AND FIRST-CLASS CERTIFICATE.

Archibald N. M'Lellan

## FIRST-CLASS CERTIFICATE.

James McCash

## SECOND-CLASS CERTIFICATES.

John Clark		Harry A. Pattullo
		Winter Session, 1891-92.

MEDAL—William Clow

## SECOND-CLASS CERTIFICATES.

Ian G. P. Alston		Joshua Ferguson, M.A.
		William S. Blair

## GEOLOGY.

WILLIAM HUNTER MEDAL—Robert Buchanan

## SECOND-CLASS CERTIFICATES.

William Fraser		William Wallace
----------------	--	-----------------

## BOTANY.

PROFESSOR F. O. BOWER, D.Sc., F.R.S.

MEDAL—Joshua Ferguson, M.A.

## SECOND-CLASS CERTIFICATES.

Robert Buchanan Gilbert Buchanan, John M. Manford	M.A. } Equal	Henry A. Pattullo } Equal David Glen William Carrick Anderson Thomas W. Bayne
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## PRACTICAL CLASS.

MEDAL—Joshua Ferguson, M.A.

## FIRST-CLASS CERTIFICATES.

William D. Millar		Robert Buchanan John Reid
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## SECOND-CLASS CERTIFICATES.

Alexander Macphail	} Equal	Samuel J. Houston
Leslie J. Paton		Gilbert Buchanan, M.A.
William Grove	} Equal	James Gardner
John Clark		Archibald Young

HERBARIUM PRIZE—William S. Cook

Mr. Cook's Herbarium contained 447 specimens correctly named.

## CHEMISTRY—PRACTICAL CLASS.

*Summer, 1891.*

PROFESSOR JOHN FERGUSON, M.A., LL.D., F.S.A.

## JOSEPH BLACK MEDALS.

Thomas S. Goodwin	} Equal
James M'Cash	

## FIRST-CLASS CERTIFICATES.

James Gardner		James M'Cash
Thomas S. Goodwin		William D. Miller
		Henry A. Pattullo

## SECOND-CLASS CERTIFICATES.

George H. B. Harvie		Alexander Shearer
David C. Kirkhope		Hugh W. Thomson
James Mair		Malcolm Watson
George Mowat		

## CHEMISTRY.

PROFESSOR JOHN FERGUSON, M.A., LL.D., F.S.A.

## JOSEPH BLACK MEDAL AND FIRST-CLASS CERTIFICATE—

William Carrick Anderson.

## SECOND-CLASS CERTIFICATES.

Robert B. Barr		Robert M. Fraser, M.A.
Robert Buchanan		John Gordon
Hugh Calderwood		William Macleod
James Foulds		Walter Stewart

## PRACTICAL PATHOLOGY.

*Summer, 1891.*

Lecturer—JOSEPH COATS, M.D.

## JOHN HUNTER MEDALS.

John H. Teacher, M.A.	} 87 per cent.
Charles Wilson	

## FIRST-CLASS CERTIFICATES.

James Murray Young,	85 per cent.
John Morton,	83 "
James Carslaw, M.A.,	81 "
Leonard A. Rowden,	
John Paterson, M.A.,	
Alex. R. Ferguson,	78 "
Malcolm Macnicol, M.A.,	
William M'Walter,	

## SECOND-CLASS CERTIFICATES.

Hugh Kerr, M.A.	}	James D. R. Munro, M.A.
Robert E. Newton		Hugh Lawrie
Hamilton C. Marr		Alfred A. Young, M.A. } Equal
John McDonald, M.A.		Peter C. MacRobert
William J. Richard, M.A.		Thomas Kirkwood, M.A. } Equal
William S. Young,	Equal	Alex. H. McCracken }

## PATHOLOGY.

Lecturer—JOSEPH COATS, M.D.

## JOHN HUNTER MEDALS.

Robert Bishop	}	Equal
James D. O. Wilson		}

## FIRST-CLASS CERTIFICATES.

Alexander J. Brownlee	Gavin M'Callum
David Charters	Robert R. Manners
James Clark	Campbell S. Marshall
Thomas Colvin	John Pearson
John W. Findlay	Malcolm A. M. Sinclair
Robert Grieve, M.A.	James L. Watson
Peter M'Bryde	

## Faculty of Arts.

## ENGINEERING.

PROFESSOR ARCHIBALD BARR, D.Sc., M.Inst.C.E.

## CLASS IV.

1. William Buchanan, Bannockburn
2. Charles Forbes, Kinkell, Newton, Muir of Ord

## CLASS III.

1. Robert Kennedy, Kilmarnock
2. John H. A. M'Intyre, Glasgow
3. John Crow, Glasgow

## CLASS I.

1. Thomas M. Aitken, Glasgow
2. William J. Goudie, Glasgow
3. Alex. Norwell, Glasgow

## SENIOR CLASS OF ENGINEERING DRAWING AND CALCULATIONS.

1. Robert Kennedy, Kilmarnock

## MIDDLE CLASS OF ENGINEERING DRAWING AND CALCULATIONS.

1. John Malcolm, Glasgow
2. Gardiner H. Mackillop, Glasgow

## JUNIOR CLASS OF ENGINEERING DRAWING AND CALCULATIONS.

1. { Thomas M. Aitken, Glasgow } Equal
- { Richard Wildridge, Australia }

## Walker Prizes for Written Examinations.

1. Charles Forbes, Kinkell, Newton, Muir of Ord
2. William Buchanan, Bannockburn

## Walker Prizes for Oral Examinations.

1. William Buchanan, Bannockburn
2. David G. Taylor, Kilmaurs

## The George Harvey Prize of £20.

William Buchanan, Bannockburn

## Recommended for Muir Bursaries.

Robert Kennedy, Kilmarnock

John H. A. M'Intyre, Glasgow

## NAVAL ARCHITECTURE, INCLUDING MARINE ENGINEERING.

PROFESSOR J. H. BILES.

## UPPER SENIOR.

Thomas F. Ruhm, U.S.A.

Frank W. Hibbs, U.S.A., for Excellence in Drawing Class Work

## JUNIOR.

Lawrence Spear, U.S.A.

William Buchanan, Bannockburn, as Best Engineering Student

## EVENING CLASS.

James R. Jack, Dumbarton, Class Prize

John Smellie, Dumbarton, Second Prize (Special) for Excellent Result

## MATHEMATICS.

PROFESSOR WILLIAM JACK, LL.D.

## UPPER SENIOR.

1. Edward H. Wallace (Cunningham Gold Medal)
2. Walter Stewart

## SENIOR.

1. Charles S. Dougall
2. Archibald C. M'Gilchrist
3. William Craig Henderson

## For Written Examinations—

Charles S. Dougall

Mr. Dougall also obtains the Muir (Senior) Mathematical Bursary, subject to the conditions in the Calendar.

## MIDDLE.

- |                       |                     |
|-----------------------|---------------------|
| 1. William A. Lindsay | 4. Peter D. Pringle |
| 2. William G. Dodd    | 5. James Moffat     |
| 3. Hugh Calderwood    | 6. Robert Simpson   |

7. David H. M'Curtain

## For Written Examinations—

William A. Lindsay

Mr. Lindsay also obtains the Muir (Junior) Mathematical Bursary, subject to the conditions in the Calendar.

## JUNIOR.

- |                      |                    |
|----------------------|--------------------|
| 1. Peter M. Campbell | 3. George M. Ross  |
| 2. John H. M'Lean    | 4. George M'Intyre |

5. James Lindsay

## For Written Examinations

Peter M. Campbell

## VACATION WORK.

## LAST SESSION'S JUNIOR.

Robert Simpson.

## LAST SESSION'S SENIOR.

Walter Stewart.

## ASTRONOMY.

PROFESSOR ROBERT GRANT, LL.D., F.R.S.

1. Alexander G. G. Guthrie, Glasgow
2. David G. Taylor, Kilmarnock, Ayrshire
3. Alexander G. Craig, Dumbarton

## NATURAL PHILOSOPHY.

PROFESSOR LORD KELVIN, D.C.L., LL.D., Pres. R.S.

## FIRST YEAR STUDENTS.

1. Charles W. Thomson, Dennistoun
2. Thomas Reid, Paisley
3. David S. Jerdan, Greenock
4. { James M. Edward, Forfar
- { John Wilson, Armadale
6. Andrew Watt, Larkhall
7. Arch. Æneas Robertson, Edinburgh  
    { Walter S. Findlay, Glasgow
- { James M'Queen, Glasgow
- { Charles W. Stewart, Glasgow
11. Alex. G. Craig, Dumbarton
12. Edward H. Wallace, Hamilton  
    { William Fraser, Glasgow
13. { Thomas Hunter, Kilmarnock  
    { William Martin, Pollokshields
16. John Weir, Dennistoun

## SECOND YEAR STUDENTS.

John R. Blackwood, Baldernock

## ADVANCED NATURAL PHILOSOPHY CLASS.

- { James H. Gray, B.Sc., Mid-Calder
- { James B. Henderson, Glasgow

## LABORATORY STUDENTS.

George E. Allan, Glasgow

## MORAL PHILOSOPHY.

PROFESSOR EDWARD CAIRD, LL.D.

4. Prizes for General Eminence in the Work of the Class.
1. (Buchanan Prize), Gavin L. Pagan, Bothwell
2. John M. Connor, Crosshill

3. Andrew E. Wallace, Glenbuck
4. Gilchrist G. Alexander, Partick
5. Edward H. Wallace, Hamilton
6. Thomas Wardrop, Cumnock
7. Hugh A. Hamilton, Saltcoats
8. { Charles W. Thomson, Dennistoun, Glasgow
- { James M'Queen, Glasgow
10. Robert M. Buchanan, Glasgow
11. James D. Robertson, Glasgow
12. George A. Stalker, Inverchaolain Manse
13. Frederick A. Macquisten, B.L., Inverkip
14. Peter Couper, Rothesay
- { Charles W. Hutcheson, Glasgow
15. { Walter S. Findlay, Glasgow.

*B.* Prizes for Written Examinations on the Lectures delivered during the Session.

1. Edward H. Wallace, Hamilton
2. Gavin L. Pagan, Bothwell

*C.* Prizes for Vacation Work.

1. For the best Examination on Ferrier's "Lectures," and Zeller's "Socrates." Charles W. Thomson, Dennistoun, Glasgow.
2. For the best Examination on Mr. Spencer's "Data of Ethics." Andrew E. Wallace, Glenbuck

*D.* Prize for the best Examination on the Greek Text of Plato's "Republic." Edward H. Wallace, Hamilton

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### HIGHER MORAL PHILOSOPHY CLASS.

Prizes for Essay and Examination on the Lectures delivered during the Session.

- |                              |   |
|------------------------------|---|
| David Graham, Lugton, Beith, | } |
| William G. Skinner, Glasgow, |   |
- 

### POLITICAL ECONOMY CLASS.

Conducted by MR. WILLIAM SMART, M.A., as Assistant to PROFESSOR CAIRD.

1. Robert Lamond, M.A., Glasgow
  2. Frederick G. Mackillop, LL.B., Glasgow
- 

### LOGIC AND RHETORIC. PROFESSOR JOHN VEITCH, LL.D.

- I. For Eminence in the Work of the Class during the Session, as shown in Oral and Written Examinations and Essays.

First Prize of the Class, open to Senior and Junior Students (The Buchanan Prize)—William Parker Hanks, Wanstead, Essex

SENIOR DIVISION.

1. John Macdonald, Glenurquhart, Inverness
2. Duncan M. M'Rae, Stornoway
3. { Robert G. Nisbet, Pollokshields  
  { William S. Paterson (Free Church Normal School), Belmont  
    Blantyre
5. { Robert H. Coats, Paisley  
  { James Law, Glasgow

7. { John D. Dowie, Glasgow  
     David W. Lennox, Greenock  
     John C. Scott, Carlisle
10. { James Ferguson, Crosshill  
     Hector M. Thomson, Glasgow
12. James Dunlop, Kilmarnock
13. Edmiston Henderson, Ayr

## JUNIOR DIVISION.

1. Henry N. Brailsford, Glasgow
2. John A. Duke, Free Church Manse, Campsie
3. { John C. Chalmers, Cumbernauld  
     { John M'A. Dickie, Kilmarnock
5. James Wilson Gardner, Glasgow
6. James C. Saunders, Bannockburn

## II. Work prepared during the Summer Vacation.

## A. Students of Session 1891-92.

## Preliminary Examination in Institutes of Logic and Descartes.

## SENIORS.

1. W. P. Hanks, Wanstead, Essex
2. Duncan M. M'Raee, Stornoway

## JUNIORS.

1. John A. Duke, Campsie
2. Henry N. Brailsford, Glasgow

## B. Students of Session 1890-91.

- (a) ESSAY.—Imagination—Its Nature and Laws.
1. Gavin L. Pagan, Bothwell
  2. George W. T. M'Gown, Coatbridge
  3. Hugh A. Hamilton, Saltcoats

## (b) READING.

- (1) Knowing and Being.
1. Gavin L. Pagan, Bothwell
  2. James M'Queen, Glasgow
  - (2) Descartes—Gavin L. Pagan, Bothwell
  - (3) Hamilton's Discussions—Gavin L. Pagan, Bothwell

## ADVANCED LOGIC.

## (Higher Metaphysics.)

## ESSAY.—The Method of Hegel—Its Nature and Validity.

1. David Graham, Lugton, Beith
2. Robert S. Clazy, Paisley

## ENGLISH LITERATURE.

## PROFESSOR ANDREW C. BRADLEY, M.A.

## I. For Eminence in the Work of the Class during the Session.

## SENIOR CLASS.

1. (The BUCHANAN PRIZE), William G. Skinner, Glasgow
2. Ebenezer Scott, Glasgow
3. William Parker Hanks, Wanstead, Essex
4. Gavin L. Pagan, Bothwell
5. Andrew M'Lachlan, Rothesay
6. Robert H. Coats, Paisley
7. Thomas Scott, Perth

## JUNIOR CLASS.

1. Robert G. Nisbet, Pollokshields
2. James Law, Glasgow
3. John C. Chalmers, Cumbernauld
4. { John M'A. Dickie, Kilmarnock  
William Neil, Glasgow } Equal
6. { John D. Dowie, Glasgow  
James W. Gardner, Glasgow } Equal
7. Hugh Jenkins, Glasgow
9. Thomas Nisbet, Glasgow
10. James P. Baird, Hamilton
11. { Edward Brown, Glasgow  
John Ruggan, Rutherglen } Equal
13. William S. Templeton, Hamilton

## II. Prizes for Vacation Work, open to Students of Session 1890-91.

1. John M. Connor, Crosshill, Glasgow
2. James H. Gillespie, Glasgow

## GREEK.

## PROFESSOR GEORGE G. A. MURRAY, B.A.

## I. Prizes for General Excellence in Work during the Session.

## SENIOR AND PRIVATE CLASS, 2 P.M.

- |                     |                       |
|---------------------|-----------------------|
| Andrew G. Thomson   | David H. Crawford     |
| Robert G. Nisbet    | Robert Matt. Buchanan |
| Henry N. Brailsford | Joseph H. Menzies     |

## SENIOR CLASS, 8 A.M.

## JEFFREY GOLD MEDAL—William Cumming

## ORDINARY PRIZES.

- |                       |                          |
|-----------------------|--------------------------|
| 1. Andrew Robertson   | 6. James Davidson        |
| 2. John F. Cunningham | 7. John C. Scott         |
| 3. John Stewart       | 8. William Gow           |
| 4. John L. C. Tulloch | 9. Samuel H. M'Ewing     |
| 5. John S. Thomson    | 10. Roderick M. Matheson |
- A Special Prize was awarded to William M. R. Pringle.

## UPPER MIDDLE CLASS, 10 A.M.

## SCOTT-MACFARLAN GOLD MEDAL—William L. Parkin

## ORDINARY PRIZES.

- |                    |                        |
|--------------------|------------------------|
| 1. George S. Adams | 6. Daniel Ferguson     |
| 2. Thomas Nelson   | 7. James N. Gray       |
| 3. Robert Simpson  | 8. Colin M. Kesson     |
| 4. Joseph Muir     | 9. William S. Paterson |
| 5. David Tripney   |                        |

## LOWER MIDDLE CLASS, 10 A.M.

## PRIZES—First Half-Session.

- |                  |
|------------------|
| { Robert Muir    |
| \ Donald Macleod |

## Second Half-Session.

- |                    |
|--------------------|
| { Thomas Colligan  |
| { Robert Y. Graham |
| { Harry Jackson    |
| { Robert Muir      |

JUNIOR CLASS - 12 NOON.

PRIZES.

- |   |  |
|---|--|
| 1. James W. Boyd<br>2. Duncan Mackenzie | 3. Archibald T. MacEwan<br>4. Maxwell R. Kirkpatrick |
| 5. Robert Murray                        |  |

## II. Prizes for Written Examinations and Exercises.

## I. SENIOR AND PRIVATE CLASS OF 1890-91.

- Prose—David H. Crawford  
Repetition of *Eschylus'* Prometheus—David H. Crawford  
John A. Duke  
Joseph F. McFadyen

THE SENIOR CLASS OF 1912.

- Translation of Eschylus' Choephoroi—John F. Cunningham  
Repetition of the same play—John F. Cunningham  
James Davidson  
William Gow  
Henry A. Williamson

- |                   |  |
|-------------------|--|
| Plato Examination | John F. Cunningham<br>James Davidson<br>John C. Scott<br>John S. Thomson |
|-------------------|--|

- Aristophanes Examination*—John F. Cunningham  
William Gow

- William Gow  
Prose during Session—Robert S. Macmorran  
3. UPPER MIDDLE CLASS

UPPER MIDDLE CLASS.  
125. 1. — X. — 1.

- Translation of Euripides' Medea—Joseph Muir  
Xenophon Examination—William L. Parkin  
Euripides Examination—William L. Parkin

HUMANITY.

PROFESSOR GEORGE G. RAMSAY, M.A., LL.D.

I. Prizes for General Eminence during the Session, awarded according to  
the Results of Written Examinations.

JUNIOR CLASS. 8 A.M.

- JUNIOR CLASS, S.A.M.

  1. John H. McLean, Greenock, F.C. Normal Student (Duncan Street Public School, Greenock)
  2. David B. Turner, Ladybank (Ladybank Public School)
  3. George G. Gardiner, Dundee, E.C. Normal Student (Ferguslie Public School)
  4. Walter Forrest, *Secondas*, Carlisle (Crossford School, Lanark, and St. John's Grammar School)
  5. Robert A. Gray, Lesmabagow (Lesmabagow Public School and St. John's Grammar School)

MIDDLE CLASS, at 8 and 11 A.M.

1. William A. Lindsay, Pollokshaws (John Street Public School)
  2. John Miller, Glasgow (Gorbals Public School)
  3. Thomas Nelson, Paisley (Grammar School)
  4. Robert Walker, Haddington (John Street Public School)
  5. George S. Adams, Hamilton (St. John's Grammar School)
  6. Coll A. Macdonald, Iona (High School)
  7. James N. Gray, Helensburgh (Larchfield Academy)
  8. James M'Murtrie (Spitalfields Public School)

## SENIOR CLASS, 9 A.M.

1. Cowan Gold Medallist and First Prizeman Henry A. Williamson, Lesmagon (Hamilton Academy)
2. Andrew Robertson, Kilmarnock (Kilmarnock Academy)
3. David G. Webster, Helensburgh (Larchfield Academy)
4. William G. Bell, Greenock (Kilblain Academy)
5. Samuel H. M'Ewing, Glasgow (Hutchesons' Grammar School)
6. Roderic M. Matheson, Meldrum (Kilblain Academy)
7. John S. Thomson, Kingarth (Rothesay Academy)
8. William M. R. Pringle, Glasgow (Garnethill Public School)

## SENIOR AND PRIVATE CLASS, 1 P.M.

The Muirhead Prize, for the Best Examination on the Lectures and Prelections delivered during the Session. The Books read were: Martial, Selections, V.-VIII.; Catullus; Tacitus, Annals I.; Virgil, *Aen.* XII.

1. Andrew G. Thomson, Kilmarnock (Kilmarnock Academy)
2. Joseph F. M'Fadyen, Glasgow (Hutchesons' Grammar School)
3. James Dick, Glasgow (Garnethill Public School)

For Latin Prose Composition—Senior Class.

## SECTION I.

Joseph F. M'Fadyen, Glasgow

## SECTION II.

Robert Howie, Dreghorn (Ayr Academy)

## VACATION EXERCISES.

- I. For the Best Examination in Livy, XXII., 1-50; Horace, *Odes* I.; Virgil, *Georgics* I.

## OPEN TO THE SENIOR CLASS OF 1891-92.

David G. Webster, Helensburgh

- II. For the Best Examination in Virgil, *Aeneid* I., 1-493; Livy, XXI. and XXII.

## OPEN TO THE JUNIOR CLASS OF 1890-91.

Donald J. Robertson, Crondale (Old Aberdeen Grammar School)

- III. For the Best Short Latin Essay on the Subject—To what extent should the *Germania* of Tacitus be considered a Satire?

## OPEN TO THE SENIOR CLASS OF 1890-91.

Joseph F. M'Fadyen, Glasgow

- IV. For the Best Translation into Latin of Aytoun's Lays of the Scottish Cavaliers—Charles Edward at Versailles.

## OPEN TO THE SENIOR CLASS OF 1891-92.

William Cumming, Paisley (Grammar School)

For the Best Translation into Latin of Arnold's Second Punic War—Chap. I., p. 41.

## OPEN TO THE JUNIOR CLASS OF 1890-91.

Not Awarded.

## GEORGE A. CLARK HONOURS CLASS.

James Dick, Glasgow (Garnethill Public School)

## THE BLACKSTONE EXAMINATION.

COWAN GOLD MEDAL—Joseph F. M'Fadyen, Glasgow

DISTINGUISHED—William Gow, Coupar-Angus

## X.—EXAMINATION QUESTIONS.

## I.—PRELIMINARY EXAMINATION IN ARTS AND FOR OPEN BURSARIES.

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OCTOBER, 1891.

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## LATIN.

Translate into English:—

- (a) Passage from a Latin poet (18 lines).  
 (b) Passage from a Latin prose writer (21 lines).
- 

Translate into Latin prose:—

Cassandra, finding himself vigorously pressed by Demetrius, and not being able to obtain peace on any reasonable conditions, agreed with Lysimachus to send ambassadors to Selenus and Ptolemy, to represent to them the situation to which they, as well as he, were reduced. The conduct of Antigonus, he said, made it evident that he had no less in view than to dispossess all the other successors of Alexander, and usurp the whole empire to himself; and that it was time to form a strict alliance with each other to humble this exorbitant power. They were likewise offended at the manner in which Demetrius permitted people to treat the other kings in their conversation at his table, appropriating the regal title to himself and his father, whereas Ptolemy was simply styled the captain of a ship, Seleucus a commander of elephants, and Lysimachus a treasurer. A confederacy was therefore formed by these four kings, and Selenus hastened into Assyria to make preparations for this new war.

## LATIN GRAMMAR.

1. Conjugate the verbs with which the following participles are connected: *mensus, demensus, recensus, detenus, rixus, raptus*; and give the gender and genitive plural of *grex, radix, nensis, lar, Idas, arva*.

2. Write down the diminutives from *homo, filius, mulier, munus, ratio, hortus*; and the adverbs from *caterra, coelum, manus, dexter, rapio, mordeo*.

3. What cases are required after *vogo, eripio, circumolo, iudicet, dignos, in, coram*? Quote or frame examples.

4. Explain and comment on the words and phrases :—*pater familias, surrexerunt, auditum iri, crurum tenus, acerborum gladio, in hac verba iures postulo, Martius Kalendis, dies Alliensis, dies comitialis, rasa colligere.*

5. Translate into Latin :—

- (1) It cannot be denied that you have made a long journey.
- (2) I fear you will depart without accomplishing your object.
- (3) There are some who say that Cicero was not a great man.
- (4) Catiline was unworthy of living.
- (5) The lieutenant was ordered to remain at Athens with his army.

### GREEK.

Translate into English :—

- (a) Passage from a Greek prose writer (12 lines).
- (b) Passage from a Greek poet (15 lines).
- (c) Passage from a Greek poet (12 lines).

1. Compare *καλός, σαφής, ἥρδιος, σώφρων, φίλος, ἡδύς, δεινός, γλυκύς, ἄγχι, ἀντι.* Give the meanings in each case.

2. Give the principal parts, with aorists, of the verbs derived from the following stems :—*αγ-, βα-, βαλ-, γνω-, τεκ-, φαν-, πιθ-, λαβ-, φυγ-,* and give their meanings.

3. Write out the imperative, singular and plural, of *εἰμι, εἴμι, οἴδα,* and (in the contracted form) the present subjunctive active of *τιμάω,* and the present subjunctive middle of *δουλῶω.*

4. Give the Greek for *how great? of what sort? one of two, which of two? there, where?* and distinguish between *οὐκονν, οὐκοῦν;* *μένω, μενῶ;* *πέρι, περί.*

5. State with what moods *ώστε* and *πρίν* may be construed; quote or frame examples. Give the cases governed by *ἐπί, μετά, περί, ἀντί,* pointing out the difference of meaning where any of these prepositions governs more than one case.

6. Give the Greek for—

- (1) The enemy are more numerous than we are.
- (2) If you tell me your name I shall tell you mine.
- (3) The Athenians condemned (*καταγιγνώσκω*) Socrates to death because they thought that he was corrupting (*διαφθέρειν*) the youth.
- (4) And when it was no longer possible for the foragers (*οἱ ἐπισιτιζόμενοι*) to get provisions so as to return on the same day to the camp, Xenophon having taken some of the people of Trebizond (*οἱ Τραπεζούντιοι*) as guides, led one half of his army against the Drilae, and left half to guard the camp.

### MATHEMATICS.

#### FIRST PAPER.

1. The angles at the base of an isosceles triangle are equal; and if the equal sides be produced the angles on the other side of the base shall also be equal.

Prove that if the same straight line bisect the base and the vertical angle of a triangle the triangle must be isosceles.

2. The square described on the hypotenuse of a right-angled triangle is equal to the squares described on the other two sides.

If on the sides of a triangle  $ABC$  squares  $BDEC$ ,  $CKHA$ ,  $AGFB$  be described, all outwardly, and if  $AP$  be drawn perpendicular to  $GH$ , show that  $PA$  produced bisects  $BC$ .

3. If a straight line is divided into any two parts, the sum of the squares on the whole line and on one of the parts is equal to twice the rectangle contained by the whole and that part, together with the square on the other part.

On a side  $AB$  of an isosceles triangle  $ABC$  as base, is described an isosceles triangle  $DBA$  having its angles equal to those of  $ABC$ , and  $DE$  is drawn perpendicular to  $CB$  produced. If  $F$  be the mid point of  $BC$ , and  $G$  the mid point of  $BF$ , prove  $DE^2 = 4GB \cdot GE$ .

4. An angle at the centre of a circle is double of the angle at the circumference which stands on the same arc.

$P$ ,  $Q$ ,  $R$  are three points on a circle whose centre is  $C$ :  $ACB$  is the diameter bisecting  $QR$  and intersecting  $PQ$ ,  $PR$  in  $M$  and  $N$ . Prove that the triangles  $CMQ$ ,  $CRN$  are equi-angular.

5. In equal circles, if two arcs be equal, the angles, whether at the centre or at the circumference, which stand on them are equal.

A triangle  $ABC$  is inscribed in a circle, and  $AD$ ,  $BE$  are the diameters through  $A$  and  $B$ .  $DF$  is drawn parallel to  $BC$ , meeting the circle in  $F$ , and  $FE$  is joined cutting  $BC$  in  $G$  and  $AC$  in  $H$ . If  $O$  be the centre of the circle, show that  $OH$  is parallel to  $BC$ , and that  $GH$ ,  $HE$ ,  $HC$  are equal.

6. If a straight line be a tangent to a circle, and from the point of contact a chord be drawn, the angles which the chord makes with the tangent shall be equal to the angles in the alternate segments of the circle.

$AB$ ,  $AC$  are two tangents to a circle  $DBC$ . Show that the chord of the circle which passes through  $A$  and is parallel to  $BD$  is bisected by  $DC$ ,  $D$  being any point on the circle.

7. Show how to inscribe a circle in a given triangle.

The inscribed circle of a triangle  $ABC$  touches  $BC$  at  $D$ ,  $CA$  at  $E$ ,  $AB$  at  $F$ , and another circle is described touching  $BC$  at  $D'$ ,  $AC$  produced at  $E'$ , and  $AB$  produced at  $F'$ . If  $EG$ ,  $FG$  be drawn parallel to  $ED'$ ,  $FD'$  respectively and intersect at  $G$ , prove (i) that  $G$  lies on the inscribed circle, (ii) that  $A$ ,  $G$ ,  $D'$  are in the same straight line, (iii) that  $AG \cdot BC = AE \cdot GD'$ .

8. Describe an isosceles triangle having each of the angles at the base double of the angle at the vertex.

If  $ABC$  be the triangle, and if the circle which passes through the vertex  $A$  and touches  $BC$  at  $C$  cut the side  $AB$  at  $D$ , and the perpendicular from  $A$  to  $BC$  at  $E$ , prove that  $ED$  is perpendicular to the tangent to the circle at  $A$ .

9. If the sides of a triangle, or the sides produced, be cut proportionally, the straight line which joins the points of section shall be parallel to the remaining side of the triangle.

*A, B, C, D* are four points in order on a straight line, and *P* is a point outside the line such that

$$PB^2 : PC^2 :: AB : BD : AC, CD.$$

If  $PB, PC$  meet the circumscribing circle of the triangle  $APD$  in  $Q, R$ , show that  $QR$  is parallel to  $AD$ , and that the angles  $APB, CPD$  are equal.

10. If four straight lines are proportional, the rectangle contained by the extremes is equal to the rectangle contained by the means; and if the rectangle contained by the extremes is equal to the rectangle contained by the means, the four straight lines are proportional.

The base  $BC$  of a triangle  $ABC$  is produced to a point  $D$  such that  $CD^2 :: BC, BD$ . Show that the line joining  $D$  to the mid point of  $AB$  meets  $AC$  at a point  $P$  such that

$$CP : PA = BC : CD.$$


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### SECOND PAPER.

1. Find the quotient and remainder in the following cases:

(i.) when  $9x^5 - 4x^3 - 4 - 6x + 5x^2$   
is divided by  $3x^2 - 5x + 2$ ;

(ii.) when  $a^4(b - c) + b^4(c - a) + c^4(a - b)$   
is divided by  $a^2 + b^2 + c^2 + bc + ca + ab$ .

2. Given that one factor of  $x^3 + y^3 + z^3 - 3xyz$  is  $x + y + z$ , find the other factor.

Employ the identity thus obtained to show that the expression  
 $(a^2 + b^2 + c^2)^3 + 2(bc + ca + ab)^3 - 3(a^2 + b^2 + c^2)(bc + ca + ab)^2$

is a perfect square.

3. Find the highest common factor of

$$(a+1)x^3 - (a-b)xy(x-y) + (b+1)y^3$$

and  $ax^3 - (a+b)xy(x-y) - by^3$ .

Also prove that, if  $x^2 + ax + b$  and  $x^2 + a'x + b'$  have a lowest common multiple of the form  $x^3 + px + q$ , then  
 $ab = a'b' = -aa'(a+a')$ .

4. Simplify the fractional expressions:

(i.)  $\frac{x+y}{y} - \frac{2x}{x+y} + \frac{x^3 - x^2y}{y^3 - x^2y}$

(ii.)  $\frac{3x^2 + 2x + 4}{x^3 - 1} - \frac{x+1}{x^2 + x + 1} - \frac{2}{x-1}$ .

5. Find, correct to two places of decimals, the value of

$$\frac{1}{\sqrt[3]{(11 - 2\sqrt{30})}} - \frac{3}{\sqrt[3]{(7 - 2\sqrt{10})}}$$

Also prove that  $\frac{x^{\frac{3}{2}} + y^{\frac{3}{2}} + xy(x^{-\frac{1}{2}} + y^{-\frac{1}{2}})}{x^{\frac{5}{2}} - y^{\frac{5}{2}} - xy(x^{-\frac{1}{2}} - y^{-\frac{1}{2}})}$  is equal to  $\frac{x+y}{x-y}$ .

6. Solve :—

$$(i.) \frac{7}{x-2} + \frac{5}{x-5} - \frac{25}{5x+3} + \frac{7}{x-6} ;$$

$$(ii.) \frac{3}{x+y} + \frac{2}{x-5} - \frac{1}{x-2y} - \frac{3}{z-6}, \quad \frac{2}{x-y} - \frac{4}{z-5} = 0.$$

7. Solve :—

$$(i.) \frac{a}{b}x^2 + \left(1 + \frac{b}{a}\right)x - \frac{1}{2} + \frac{b}{a}x^2 - \left(1 - \frac{a}{b}\right)x + \frac{1}{2} ;$$

$$(ii.) 3x^2 - 4xy = 3, \quad 15xy - 20y^2 = 6.$$

8. Find the sum of  $n$  terms of a series in geometrical progression.

Find four numbers in arithmetical progression such that, if 1, 5, 13, 27 be added to them respectively, the sums shall be in geometrical progression.

9. Define "the degree" and "the radian," and find the number of radians in an angle of  $D$  degrees.

In each of two triangles the angles are in geometrical progression; the least angle of one of them is three times the least angle of the other, and the greatest angle of the one together with the greatest angle of the other is  $240^\circ$ . Find the number of radians in the least angle.

10. Express  $\sin(A+B)\sin(A-B)$  as the difference of the squares of two sines and  $\cos A - \sin B$  as the product of two sines.

Prove that  $(\cos A + \sin A)^4 + (\cos A - \sin A)^4 = 3 - \cos 4A$ . Hence find the greatest and least values of the expression

$$(\cos x + \sin x)^4 + (\cos x - \sin x)^4,$$

and give the corresponding values of  $x$ .

11. Show that in any triangle  $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C} = 2R$ , where  $R$  is the radius of the circumscribing circle, and find a value for  $r$ , the radius of the inscribed circle.

If  $b+c=2a$ ,  $B-C=90^\circ$ , find the angle  $A$ , given

$$\log 2 = 3010300, \quad L \sin 20^\circ 42' = 9.5483585,$$

$$L \sin 20^\circ 43' = 9.5486927.$$

Show also that  $R=4r$ .

## ENGLISH.

I. Analyse the following passage :—

" Among my earliest recollections, none is stronger than that of my father standing before the fire when he came home in the London winter evenings, and singing to us in his sweet, generous tones ; sometimes ancient English ditties, such songs as one might translate from the birds, and the brooks might set to music ; sometimes those with which foreign travel had familiarized his youth, among them the great tunes which have rung the world's changes since '89."

2. Describe any four of these characters : Griselda, Polonius, Imogen, Sir Roger de Coverley, Ravenswood, Micawber, Arthur Pendennis.

3. What is meant by a "figure of speech"? Define and give examples of—*simile, metaphor, antithesis, irony*.

4. State briefly what you know (1) of the authors, (2) of the subjects, of the following works :—*The Canterbury Tales, The Faery Queen, Don Quixote, The Ancient Mariner, Jane Eyre, Rienzi, Treasure Island.*

5. Write an Essay on *one* of these subjects:—

- (1) The Elizabethan Age,  
or (2) Chivalry,  
or (3) The scenery of Tennyson's or Burns' poems.

## II.—FOR THE DEGREE OF M.A.

### I.—FOR ORDINARY DEGREE.

#### A.—DEPARTMENT OF CLASSICAL LITERATURE.

#### LATIN TRANSLATION.

(Time allowed—Two hours.)

1. Translate:—

- (a) Virg. *Aeneid* XI., 487—504.
- (b) Hor. *Odes* III., 12.
- (c) Hor. *Odes* IV., 4. 57—68.
- (d) Hor. *Sat.* II., 3. 147—157.
- (e) Tac. *German.* 45.

2. Explain the constructions of the words in italics, and indicate the context of the following passages:—

- (1) Nec *veni*, nisi fata locum sedemque dedissent.
- (2) Fida ante alias quae sola Camillae,  
Quicum *partiri* curas.
- (3) Hic, unde vitam *sumeret* inscius,  
Pacem *duello* miscuit.
- (4) Reddidi carmen, docilis *modorum*  
Vatis Horati.
- (5) 'Unde mihi *lapidem*?—'Quorsum est opus?'
- (6) Cedere *loco*, dummodo rursus instes, *consilii* quam *formidinis* arbitrantur.

#### LATIN PROSE.

(Time allowed—Two hours.)

It was said that these Germans, on the invitation of the Celts, intended to advance into the interior of Gaul: and it was well known that bands of their horsemen already roamed as far as the borders of the Treviri. But when Caesar with his legions came to meet them, they seemed not desirous of fresh conflicts, but very ready to accept land from the Romans and to till it under their supremacy. While negotiations as to this were going on, a suspicion arose in the mind of

the Roman general that the Germans only sought to delay till the bands of horsemen sent out by them had returned. Whether this suspicion was well-founded or not, we cannot tell: but confirmed in it by an attack which in spite of the truce a troop of the enemy made on his vanguard, Caesar thought that he need pay no regard to international law (*ius gentium*). When on the second morning the princes and elders of the Germans appeared in the Roman camp to apologise for the attack made without their knowledge, they were arrested, and the multitude, anticipating no assault and deprived of their leaders, were suddenly fallen upon by the Roman army. The behaviour of Caesar towards these Germans met with severe and merited censure in the Senate: but however little it can be excused, the German encroachments were emphatically checked by the terror which it occasioned.

## GENERAL PAPER.

*(Time allowed—Two hours.)*

### A. UNPREPARED TRANSLATION.

*(THE CHARACTER OF CATO.)*

In hoc viro tanta vis animi ingenique fuit, ut, quoenamque loco natus esset, fortunam sibi ipse facturns fuisse videretur. Nulla ars neque privatae neque publicae rei gerendae ei defuit. Urbanas rusticasque res pariter callebat. Ad summos honores alios scientia iuris, alios eloquentia, alios gloria militaris proveyit; huic versatile ingenium sic pariter ad omnia fuit, ut natum ad id unum diceres, quodcumque ageret. In bello manu fortissimus multisque insignibus clarus pugnis: idem, postquam ad magnos honores pervenit, summus imperator; idem in pace, si ius consuleres, peritissimus, si causa oranda esset, eloquentissimus, nec is tantum, cuius lingua vivo eo viguerit, monumentum eloquentiae nullum exstet; vivit immo vigetque eloquentia eius sacra scriptis omnis generis. Orationes et pro se multae et pro aliis et in aliis: nam non solum accusando, sed etiam causam dicendo fatigavit inimicos. Similitates nimio plures et exercuerunt eum et ipse exercuit eas, nec fatigare dixeris, utrum magis presserit cum nobilitas, an ille agitaverit nobilitatem.

### B. GRAMMAR.

1. Explain the nature of the *Gerund* and the *Gerundive*, and show by examples how they are used.

2. Give the ablative singular and the genitive plural, and also where necessary the gender of (a) *calcar*, (b) *os*, (c) *acens*, (d) *supplex*, (e) *principis*; the perfect indicative active (first singular) and the supine of—(a) *prosterni*, (b) *tergo*, (c) *civis*, (d) *parco*; parse (a) *ausim*, (b) *obice*, (c) *exosa*; and give the meanings of the terminations in (a) *aratum*, (b) *osculum*, (c) *fugax*.

### C. ANTIQUITIES.

Explain the following:—(a) *census equites*, (b) *honorum cursus*, (c) *nundinae*, (d) *perpetuae quaestiones*, (e) *supplicatio*, (f) *clavis*.

## D. HISTORY (133-31 B.C.).

State briefly what you know about *two* of the following subjects, with particulars of dates, persons, etc.:-

- (a) The reforms of the elder Gracchus.
  - (b) The war with Jugurtha.
  - (c) The trial of Verres and its political importance.
  - (d) The reforms of Caesar during his Dictatorship.
  - (e) The operations of Octavian against Sextus Pompey.
- 

## GREEK TRANSLATION.

(*Time allowed—Two hours.*)

1. Translate one passage from each of the following sections:—

## Section A.

- (a) Hom. *Odyss.* IX., 420—435.
- (b) Hom. *Odyss.* XIII., 73—88.
- (c) Hom. *Iliad* XVI., 765—780.
- (d) Hom. *Iliad* XXII., 306—321.

## Section B.

- (a) Herod. IX., 41.
- (b) Thucyd. IV., 27—8.

## Section C.

- (a) Plato, *Protagoras*, p. 322b.
- (b) Plato, *Apologia*, p. 40c.

2. Translate the passages from one of the following sections:—

## Section A.

- (a) Sophocles, *Electra*, 891—906.
- (b) Sophocles, *Electra*, 193—200.

## Section B.

- (a) Aeschylus, *Prom. Vinct.*, 445—461.
- (b) Aeschylus, *Prom. Vinct.*, 887—893.

## Section C.

- (a) Aeschylus, *Cheophoroi*, 912—927.
- (b) Aeschylus, *Cheophoroi*, 51—60.

## GENERAL PAPER.

(*Time allowed—Two hours.*)

(N.B.—*Candidates, who can obtain good marks in Composition (B. 3.), may omit the remaining questions in Grammar (B. 1. and B. 2.) and need only do two questions in C.)*

## A. UNPREPARED TRANSLATION.

(A MYSTERIOUS DISAPPEARANCE.)

Ἐγὼ δὲ τὸν μὲν πλοῦν ἐποίησάμην εκ τῆς Μιτυλήνης, ὡς ἀνδρες, ἐν τῷ πλοίῳ πλέων φέρειν οὐτος, ὃν φασιν ἵππον ἀποθανεῖν ἐπλέομεν δὲ εἰς τὴν Αἶνον. ἐτύχομεν δὲ χειμῶνί τινι χρησάμενοι, ἵφ' οὗ ἡ ναγκάσθημεν κατασχεῖν

*εἰς τὴς Μηθιματας τε χωρίου, οὐ τὸ πλάνον ὡρινι τοῦτο εἰς ὁ μετεκβίντα φασίν αποθίνειν αἴτιον.* Ἐπιδῆ δὲ μετεκβίνειν εἰς τὸ ἔτιρον πλάνον οὐκ εἰς τὸς πάλιν ἀγώ δὲ τὸ παράπαν οὐκ εἰς βρύνειν τὸ πλάνον τὸς μετρίας ἐνεργεῖ. τῷ δὲ σπεραιᾳ, ἐπιδῆ ἀφανής ἦν ὁ ἀνήρ, ἐγένετο οὖν τι αιλλων ἴπθε τέλος ἄλλων ἥ καὶ ἐπ' ἐμοῖς καὶ εἰ τοις ἄλλοις ἰδίαις διάνειν εἶναι, καὶ εἰς οὐδείς. καὶ εἰς τε τῷ Μετελέμηνη ἴγρα αἵτιος ἦν πειρθῆναι ἀγγελούς, καὶ τοι εἰ γράψαγε πειπετοῦ καὶ ἄλλοις οὐδενὸς ίθε λογτος βαδίζειν, οὔτε τῶν ἀπὸ τοῦ πλάνον οὐ τε τῶν αἴτων τῷ Πρόδηρ συμπλεύτων, ἐγὼ τῶν ἀνδρῶν τῶν διατάσσω πειπετον τοιούς ἦν· κατὰ τοιού δήπον γε κατ' ἔμαυτον αγνοήσῃ πειπετον εἶδες. ἐπειδὴ δὲ ὁ ἀνήρ οὔτε εν τῷ Μετελέμηνη ἴφαινετο γράψαντος οὐτε ἄλλοις οὐδενί. πλὴν τε οὐδὲν ἴγραμετο, καὶ τάλλα άνηγέτο πλάνοις ἀπαντα, φάντατα κατέχει πλάνων.

### B. GRAMMAR.

1. Write out the aorist indicative active of *ἐντιθεμαι*: give the genitive singular and the dative plural of *μεσος*, *γένος*, *οις*; and the first person singular of four of the principal tenses (indicative mood) of *-γιγνωσκω*, *-κινω*, *γανω*, *-νησω* (I say); and parse *ανηγένετο*, *ἔρνη*, *τεινάτη*, and *ἐπιθετος*.

2. Mention, with examples, the various ways in which a wish can be expressed in Greek.

3. Turn into Greek:—

Once in time of peace two travellers saw a robber coming towards them, and while the one fled, the other bravely remained and slew the robber. And when the robber was slain, the other also ceased his flight, and running up with all speed, sword in hand, ‘Come,’ he said, ‘I will show this fellow with what sort of men he has dared to fight.’ Thereupon his companion answered as follows: ‘Would you had helped me with these words before. Come, lay aside your weapon; for I who saw how fast you fled, know how much one should trust your valour.’

### C. LITERATURE, ANTIQUITIES, AND HISTORY.

4. Discuss concisely any three of the following subjects:—

- (1) The Fall of Themistocles.
- (2) The idea of “Aγος in Tragedy.
- (3) The effects upon the Athenians of their defeat at Syracuse.
- (4) The Parthenon.
- (5) Greek Funeral Stelae.
- (6) The writings of Plutarch.
- (7) The Teaching of the Sophists.

### B.—DEPARTMENT OF MENTAL PHILOSOPHY.

#### LOGIC.—Three hours.

(Candidates are required to answer TEN questions, FIVE of which must be selected from Section A, and FIVE from Section B, of this paper.)

#### A.

1. Classify the powers of Knowledge. Explain what is meant by Intuition, Conception, Simple Representation, Imagination.

2. (a) "Consciousness is a feeling of difference." (b) "Consciousness is a state of constant change or movement." Criticise these statements. Show what is involved in consciousness.

3. State and examine Berkeley's doctrine of Perception. Refer especially to the view that in sense knowledge *esse* is *percipi*; and the view that "reality is for knowledge."

4. Trace the historical connection between Locke, Berkeley, and Hume.

5. What are the various meanings attached to the term Cause? What seems to be the true nature of Causality?

6. Give a brief account of the nature and sphere of the Sense of Vision. Notice Colour-blindness, and the means of determining Distance.

7. State the Aristotelic law regulating Pleasure and Pain. Point out necessary supplements to and modifications of the law. Indicate its moral bearings.

### B.

1. State shortly the formal Laws of Thought, and notice any objections that have been taken to their validity. Can "the double answer *yes* and *no* be given to one and the same question understood in the same sense"? Give reasons for your answer.

2. What is meant by Comprehension and Extension of terms? State the common view of their relation to one another. On what grounds has this view been questioned?

3. Judgment expresses "the relation of agreement or disagreement" between ideas. Examine this view of the nature of judgment. Classify judgments.

4. What is meant by the quantification of the predicate? Show some of the results of the application of the principle. What objections have been taken to Hamilton's doctrine on this subject? How far can they be met?

5. Are the moods EE, EO, II, IO, IE, logically admissible? If not, why not? For what purposes are the various figures severally adapted? Illustrate your answer by examples. Is the fourth figure a natural form of reasoning?

6. Give (1) the contradictory, (2) the contrary, (3) the contrapositive of—

- (a) Some members of parliament are not rich.
- (b) All who love anything love virtue.
- (c) Few candidates were satisfactory.
- (d) None but the brave deserve the fair.

7. State the Nature and laws of formal Deduction, Material Induction, and Analogy. Illustrate each by an example.

### MORAL PHILOSOPHY.

#### A. FOR STUDENTS OF SESSIONS 1891-92, AND 1887-88.

*(Candidates are required to answer NINE questions.)*

1. "Virtue is Knowledge." In what sense did Socrates maintain this principle? Was he quite self-consistent in maintaining it? How was his view modified by Plato?

2. What is meant by Organic Unity? How far is this idea realised in Plato's ideal state?
3. Discuss the argument by which in the first book of the Republic Plato proves that Justice is stronger than Injustice.
4. What conception of Contract was adopted by the Stoic lawyers of Rome, and how did it influence the development of the idea of a Social Contract?
5. Discuss Plato's treatment of the relation of Goodness to Happiness.
6. What is Plato's view of the place of Art and Poetry in education? Is he always self-consistent on this point?
7. What is meant by the distinction between the social and political organisations, and what is the relation between them?
8. What does Plato mean by the idea of Good, and what is the relation of the other ideas to it?
9. Discuss Plato's arguments for Immortality.
10. Give and discuss Plato's argument against Sensationalism in the *Theaetetus*.
11. What is Plato's view of the relation of the different virtues?
12. What is the main aim of the Platonic Socialism, and what are the principal differences between it and modern Socialism?

**B. FOR STUDENTS OF SESSIONS 1890-91, OR 1888-89, OR ANY SESSION BEFORE 1885-86.**

*(Candidates are required to answer NINE questions.)*

1. "The aim of Philosophy is to get beyond abstract views of things." Explain and examine this.
2. How does Mr. Spence attempt to reconcile the *a priori* with the empirical view of knowledge?
3. What is the relation between the views of knowledge maintained by Hume and by Kant respectively?
4. Criticise the Darwinian view of Evolution, especially in relation to the evolution of man.
5. "Poetry is a noble untruth." Explain and discuss this saying.
6. How do casuistical questions arise, and how can they be solved?
7. Compare and contrast the ethical views of Epicurus and Bentham.
8. Discuss the possibility of a Hedonistic calculus.
9. What was the conception of the rights of Persons embodied in Roman law? Did the Romans carry it out consistently?
10. "The two great elements which conflict in modern life are Hebraism and Hellenism." Explain and examine this saying.
11. Discuss Kant's view of Freedom.
12. "Egoism and Altruism are co-essential." What does Mr. Spence mean by this? Discuss his view.

**C. FOR STUDENTS OF SESSIONS 1889-90 OR 1885-86.**

*(Candidates are required to answer NINE questions.)*

1. What is Aristotle's view of the relation of Ethics to Psychology?
2. Discuss Aristotle's definition of virtue, with special reference to the objection of Kant.
3. What is the relation of Aristotle's theory of virtue to those of the Stoics and Epicureans respectively?

4. Give and discuss Aristotle's view of Moral Responsibility.
5. Give and discuss Aristotle's main objections to the ideal theory of Plato.
6. "Die to live." Analyse the view of Ethics expressed in these words.
7. Explain Aristotle's views of Justice, and compare them with those of Plato.
8. Examine Aristotle's view as to the proper limits of indulgence in wit and humour.
9. Discuss the Aristotelian view of the relation of Happiness to Good Fortune.
10. What is Socialism? How far can Aristotle's view of the State be regarded as socialistic?
11. Give and discuss Aristotle's view as to the relation of the theoretical and the practical life.
12. What is Pantheism, and what is its moral influence?

**D. FOR STUDENTS OF SESSION 1886-87.**

(Candidates are required to answer NINE questions.)

1. What is the relation of Dogmatism, Scepticism, and Criticism according to Kant?
2. What was the main principle of Locke's philosophy, and how was it developed by Hume?
3. Examine the possibility of basing ethics upon a calculus of pleasures.
4. How does Mr. Spencer use the idea of evolution as a means of reconciling the empirical with the *a priori* views of knowledge?
5. What is the relation between the theoretical and practical reason according to Kant?
6. "Desire is only appetite with the consciousness of it." Examine this statement and the ethical inferences drawn from it.
7. Give Kant's different ways of formulating the moral law. Are they exactly equivalent to each other?
8. What is meant by "liberty of indifference"? What are the objections to it as a satisfactory idea of liberty?
9. What does Kant mean by the *Jus realiter personale*? What objections may be taken to this conception?
10. What is Kant's view of the relation of Morality to Law?
11. Discuss Kant's view of the relation of Goodness to Happiness.
12. Give and discuss Kant's classification of the Virtues.

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**ENGLISH LANGUAGE AND LITERATURE.**  
*Three Hours.*

**I. FOR STUDENTS OF SESSIONS PRIOR TO 1891-92.**

(Answer NINE questions, taking ONE from A, FOUR from B, ONE from C, and ONE from D. The remaining TWO may be taken from any part of the Paper. One of the questions numbered 17 and 20 must be attempted.)

**A. COMPOSITION AND PHILOLOGY.**

1. Criticise and correct the following sentences:—

- (a) He seldom or ever showed himself at a loss for a ready retort.
- (b) A Popish writer was treated with equal severity as a Puritan; none were spared.

(c) Men that we see at a glance all that is in them are shallow creatures.

(d) It is a nervous thing to move about under a thousand jealous eyes belonging to twice the number of ready hands burning to put a bullet into the first stranger that comes near them.

(e) Whom do men say that I am?

(f) Entering the factory gate the evidence offered to his visual organs was startling.

2. Distinguish redundancy from verbosity, and allegory from metaphor. Explain and illustrate the meaning of the terms: 'inversion,' 'loose sentence,' 'antithesis,' 'anti-climax.'

3. Discuss *one* of the following statements: (a) Words of Anglo-Saxon origin should always be preferred to words of Latin origin;

(b) Neither archaic nor newly-coined words ought ever to be used.

4. Explain the meaning of the following statements: (a) Of the words *tres*, *three*, *drei* (High German), no one is derived from another; (b) These words exemplify the shifting of the sound *t* to the sound *th*, and the shifting of the sound *th* to the sound *d*.

5. What were the chief differences between Anglo-Saxon and Middle English?

6. In what dialects are the following quotations written? How did these two dialects chiefly differ, and what was their history after 1400?

(a) Yef the vader of the house wiste huyche time the thyef were comynde, vorzothe he wolde waky.

(b) He loves men that in ald tyme has bene,  
He lakes tha men that now er sene.

#### B. HISTORY OF ENGLISH POETRY FROM THOMSON TO BYRON.

7. Show, by comparison of Thomson and Burns, the changes that had come over English Poetry in the half-century which separates these two poets.

8. Show the influence of the old Ballads upon English Poetry, between 1750 and 1820.

9. Discuss *one* of the following questions: (a) Why did the poems of Cowper and of Scott soon become popular? (b) Why were the poems of Collins and of Blake at first neglected?

10. In what respects was Wordsworth's poetry about Nature unlike anything previously written? Illustrate your answer.

11. Describe *Childe Harold*. Do you consider that in poetic value it is equal to *Don Juan*?

12. Discuss the influence of the French Revolution on Coleridge, Byron, and Shelley. Illustrate your answer.

13. Write a short account and criticism of any *two* of the following: *The Progress of Poetry*, *The Village*, *Christabel*, *Prometheus Unbound*, *Hyperion*.

14. Give the approximate dates, and the names of the authors, of the following works; name the species of poetry to which each belongs, and (in the case of the longer poems) the metre in which each is written: *Cadogan Castle*, *London*, *The Eve of St. Agnes*, *Gretchen of Wyoming*, *The Book of Thal*, *Ode on the Passions*,  *Cain*, *Kubla Khan*, *Tales of the Hall*, *Lamia*, *Lalla Rookh*, *The Desorted Village*, *Astastor*.

## C. JULIUS CAESAR.

15. "*Julius Caesar* is a tragedy of reflection." "*Julius Caesar* is a political tragedy." Are these statements contradictory? Discuss the character of Brutus with reference to them.

16. Either (a) discuss Shakespeare's representation of the populace in *Julius Caesar*, or (b) describe fully and discuss the speech of Antony to the people.

17. Explain with reference to the context:—

- (a) Caesar, I never stood on ceremonies ;  
Yet now they fright me.
- (b) I know where I will wear this dagger then.
- (c) Between the acting of a dreadful thing  
And the first motion, all the interim is  
Like a phantasma, or a hideous dream :  
The genius and the mortal instruments  
Are then in council.
- (d) Yours, Cinna ; and, my valiant Casca, yours ;  
Though last, not least in love, yours, good Trebonius.
- (e) Why, farewell, Portia. We must die, Messala :  
With meditating that she must die once,  
I have the patience to endure it now.

## D. IN MEMORIAM.

(For Students of the Senior Class.)

18. The poem has been called "a song of victory." In what sense is this a true description?

19. How far does the poem reveal the influences (religious, political, or other) of the years during which it was written?

20. Explain with reference to the context:—

- (a) The very source and fount of Day  
Is dash'd with wandering isles of night.
- (b) If Death were seen  
At first as Death, Love had not been,  
Or been in narrowest working shut.
- (c) So then were nothing lost to man ;  
So that still garden of the souls  
In many a figured leaf enrolls  
The total world since life began.
- (d) Nor cared the serpent at thy side  
To flicker with his double tongue.
- (e) O loved the most, when most I feel  
There is a lower and a higher ;  
Known and unknown ; human, divine.

## D. THE COVERLEY PAPERS FROM THE "SPECTATOR."

(For Students of the Junior Class.)

18. Illustrate from the Coverley Papers the peculiarities of Addison's humour. How far is it true that the credit of having conceived the character of Sir Roger belongs to Steele?

19. What references are found in these Papers to (a) the proper treatment of servants, (b) the difficulty of rising by merit in the army, (c) Quakers? What quotations are made of passages from Milton, Dryden, and Otway?

20. Explain, with any necessary reference to the context:—

(a) Sir Roger had often supped with my Lord Rochester and Sir George Etherege.

(b) The squire has made all his tenants atheists and tithe-stealers.

(c) I replied that much might be said on both sides.

(d) Come, thou art, I see, a smoky old fellow.

(e) He was the first who touched for the evil.

(f) I had promised to go with him on the water to Spring Gardens.

## II. FOR STUDENTS OF SESSION 1891-92.

*(Answer NINE questions, taking ONE from A, FOUR from B, ONE from C, and ONE from D. The remaining TWO may be taken from any part of the paper. Question 18 must be attempted.)*

### A. COMPOSITION AND PHILOLOGY.

1. Criticise and correct the following sentences:—

(a) He seldom or ever showed himself at a loss for a ready retort.

(b) A Popish writer was treated with equal severity as a Puritan: none were spared.

(c) Men that we see at a glance all that is in them are shallow creatures.

(d) It is a nervous thing to move about under a thousand jealous eyes belonging to twice the number of ready hands burning to put a bullet into the first stranger that comes near them.

(e) Whom do men say that I am?

(f) Entering the factory gate the evidence offered to his visual organs was startling.

2. Distinguish redundancy from verbiety, and allegory from metaphor. Explain and illustrate the meaning of the terms: ‘inversion,’ ‘loose sentence,’ ‘antithesis,’ ‘anti-climax.’

3. Discuss *one* of the following statements: (a) Words of Anglo-Saxon origin should always be preferred to words of Latin origin; (b) Neither archaic nor newly-coined words ought ever to be used.

4. Explain the meaning of the following statements: (a) Of the words *tres*, *three*, *drei* (High German), no one is derived from another; (b) These words exemplify the shifting of the sound *t* to the sound *th*, and the shifting of the sound *th* to the sound *d*.

5. What were the chief differences between Anglo-Saxon and Middle English?

6. In what dialects are the following quotations written? How did these two dialects chiefly differ, and what was their history after 1400?

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(b) He loves men that in ald tyme has bene,  
He lakes tha men that now er sene.

## B. POETICAL LITERATURE OF SHAKESPEARE'S AGE.

7. Explain the general design of the *Fairy Queen*. In what ways is the poem characteristic of Spenser's time?
8. Give an account of the poetry of any two of the following : Sir John Davies, Browne, Wither, Daniel.
9. Compare, by reference to examples, the songs of Shakespeare's age with those of Burns and those of the English poets of this century.
10. Compare the tragedies of *Hamlet* and *Macbeth*, with reference to subject, treatment, and dramatic effect.
11. Why are *As You Like It* and *Cymbeline* called romantic comedies ? What did Shakespeare owe to Greene and to Lyly ?
12. Sketch the plot either of *Philaster* or of *The Alchemist*, and discuss the character either of Bellario or of Sir Epicure Mammon.
13. Discuss any two of the following characters :—Mortimer, Arbaces, Morose, Felice, Overreach.
14. Compare Webster and Heywood as writers of Tragedy, referring to *The Duchess of Malfi* and *A Woman Killed with Kindness*.
15. Discuss, with reference to the plays contained in *British Dramatists*, the statement that Massinger was superior to Marlowe as a dramatic artist, but inferior to him as a poet.

## C. CHAUCER'S PROLOGUE.

16. Explain the plan of the *Canterbury Tales*. In what ways does the *Prologue* seem to reveal Chaucer's tastes and character ?
17. Describe in your own words any two of the following :—the Knight, the Franklin, the Wife of Bath, the Summoner.

18. Paraphrase and explain :—

- (a) and the yonge sonne  
Hath in the Ram his halfe cours y-ronne.
- (b) This ilke monk leet olde thinges pace,  
And held after the newe world the space.
- (c) A Sergeant of the Lawe, war and wys,  
That often hadde been at the parvys,  
Ther was also, ful riche of excellencie.
- (d) It is ful fair to been y-clept ma dame,  
And goon to vigilyes al bifore,  
And have a mantel roialliche y-bore.
- (e) 'Purs is the erchedeknes helle,' seyde he.
- (f) I ne saugh this yeer so mery a compaignye  
At ones in this herberwe as is now.

Scan (e) and (f), and write notes on the etymology of *pace*, *space*, *parvys*, *herberwe*.

## D. ARNOLD'S SELECTIONS FROM WORDSWORTH.

(For Students of the Senior Class.)

19. Mention some of the poems in this volume which have a special biographical interest.
20. 'No writer since Shakespeare has left us so true a picture of the British nation as Wordsworth.' Discuss this with reference to Arnold's Selections.

21. Choose any *six* of the following quotations, and describe in a few lines each of the six poems from which the lines are taken:

- (a) Elysian beauty, melancholy grace,  
Brought from a pensive though a happy place.
- (b) Thoughts that do often lie too deep for tears.
- (c) The sleepless Soul that perished in his pride.
- (d) The light that never was, on sea or land,  
The consecration and the Poet's dream.
- (e) Love had he found in huts where poor men lie.
- (f) The Being that is in the clouds and air.
- (g) Thy Soul was like a star, and dwelt apart.
- (h) Our haughty life is crowned with darkness.
- (i) For old unhappy far-off things,  
And battles long ago.

#### D. SELECTED POEMS OF COLERIDGE.

*(For Students of the Junior Class.)*

19. Tell clearly the story of the *Ancient Mariner* or of *Christabel*, and explain those of the following passages which come from the poem you select:—

- (a) The sun now rose upon the right.
- (b) The self-same moment I could pray.
- (c) Then the lady rose again,  
And moved as she were not in pain.
- (d) 'Sure, I have sinned,' said Christabel.

20. Discuss Coleridge's use of the supernatural in the *Ancient Mariner* and *Christabel*.

21. Explain the circumstances in which the Ode on *France* or the Ode on *Desjection* was written, and give an account of the substance of the Ode you select.

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#### C.—DEPARTMENT OF MATHEMATICS.

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#### MATHEMATICS.

FIRST PAPER.—*Three hours.*

1. Draw a straight line at right angles to a given straight line from a given point in the same.

2. Show that any two sides of a triangle are together greater than the third side.

Show that the sum of the perpendiculars from the angular points on the opposite sides are together less than the perimeter of the triangle and greater than the semi-perimeter.

3. If the square on one side of a triangle be equal to the sum of the squares on the other two sides, the triangle must be right-angled.

4. Divide a straight line into two parts so that the rectangle contained by the whole line and one of the parts may be equal to the square on the other part.

5. In any triangle the square on the side subtending an acute angle is less than the sum of the squares on the other two sides by twice the rectangle contained by either of these sides and the projection on it of the other side.

Deduce an expression for the length of the perpendicular from any one of the angular points on the opposite side in terms of the sides of the triangle.

6. The diameter is the greatest chord of a circle and of all others that which is nearer to the centre is greater than that which is more remote; and the greater chord is nearer to the centre than the less.

Through a point within a circle draw a chord which divides the circle into two segments, such that the angles in these segments are the greatest and the least possible.

7. If a straight line touch a circle and from the point of contact a straight line be drawn cutting the circle, the angles which this line makes with the tangent are equal to the angles in the alternate segments of the circle.

8. Inscribe a regular pentagon in a given circle.

If any pair of alternate sides be produced to meet, show that they make with one another an angle which is half the angle subtended by any side of the pentagon at the centre of the circle.

9. Equal triangles which have one angle of the one equal to one angle of the other have their sides about the equal angles reciprocally proportional and conversely.

If two vertically opposite triangles formed by the diagonals of a quadrilateral be equal, the other vertically opposite pair must be similar.

10. Similar triangles are to one another in the duplicate ratio of the homologous sides.

11. Any rectilineal figure described on the hypotenuse of a right-angled triangle is equal to the similar and similarly situated figures described on the other two sides.

12. If a transversal cut the sides  $BC$ ,  $CA$ ,  $AB$  of the triangle  $ABC$  in the points  $D$ ,  $E$ ,  $F$ , respectively, prove that

$$AF \cdot BD \cdot CE = AE \cdot BF \cdot CD.$$

### SECOND PAPER.—Three hours.

1. Prove that  $a^3 + b^3 + c^3 - 3abc$  is divisible by  
 $\frac{1}{2}[(a-b)^2 + (b-c)^2 + (c-a)^2]$ .

2. Define an index; what meaning do you give to  $a^0$  and  $a^{\frac{1}{2}}$ ?  
 Extract the square root of

$$x^3 - 4x^{\frac{5}{2}}y^{\frac{1}{2}} + 10x^{\frac{3}{2}}y^{\frac{3}{2}} - 4x^{\frac{1}{2}}y^{\frac{5}{2}} + y^3.$$

3. Express  $(x^2 - 5x)^2 - 2(x^2 - 5x) - 24$   
 as the product of four factors.

4. Solve the equations

$$(i.) \frac{1}{2} \left[ \frac{2x}{5} + 3 \right] - \frac{3\frac{1}{2} - x}{2} = x \left[ 3 - \frac{2}{x} \right],$$

$$(ii.) ax + by = a^2 - b^2; b^2x - a^2y = ab(a + b),$$

$$(iii.) \frac{3}{x} - \frac{2}{y} = 13; \frac{5}{x} + \frac{6}{y} = 3.$$

5. An officer can form his men into a solid square and have 16 men over ; he can also form them into a hollow square three deep, with twice the number of men in each side, and have 8 over. How many men had he?

6. Solve the equations

$$(i.) \frac{x}{x+3} + \frac{x+3}{x} = 2 \frac{4}{5},$$

$$(ii.) (x+1)(x+2) - 8x^2 + 3x + 6 = 8,$$

$$(iii.) x^2 - 3xy = 7; x^2 - 2xy - y^2 = 1.$$

7. Express the sum and product of the roots of the equation

$$ax^2 + bx + c = 0$$

in terms of the coefficients ; and find the condition that the roots should be equal.

Find what values  $k$  must have in order that the equation

$$3x^2 + 4(1+k)x + k+1 = 0$$

may have equal roots.

8. Find a number, such that when added to 1, 3, 7, 13, the results are proportionals.

9. Sum the series

$$(i.) 3\frac{1}{7}, 2\frac{2}{7}, 2\frac{4}{7}, \dots \text{ to 14 terms.}$$

$$(ii.) 3\frac{3}{7}, -1\frac{5}{7}, \frac{9}{7}, \dots \text{ to 6 terms and to infinity.}$$

10. Explain how angles are measured ; and show how to express in degrees and grades an angle given in radians.

The angles of a pentagon are in arithmetical progression and the greatest exceeds the least by a right angle. Express each of the angles in degrees and radians.

11. Prove that  $\cot(\alpha + \beta) = \frac{\cot \alpha \cot \beta - 1}{\cot \alpha + \cot \beta}.$

Prove that  $\cot(45^\circ + \alpha) + \cot(45^\circ - \alpha) = 2 \sec 2\alpha.$

12. Find all the trigonometrical ratios of  $60^\circ$ .

Solve the equation  $\sec^2 \theta + 3 \operatorname{cosec}^2 \theta = 8,$

13. In any triangle prove that

$$\tan \frac{A}{2} = \sqrt{\frac{(s-b)(s-c)}{s(s-a)}},$$

and solve completely the triangle in which

$$a = 54; b = 48; c = 36.$$

## NATURAL PHILOSOPHY.

FIRST PAPER.—*Three hours.*

1. Explain how forces can be represented by straight lines. Enunciate the ‘Parallelogram of Forces.’

A picture is hung in the ordinary way by a string passing over a smooth peg. If the weight of the picture is 150 lbs., the distance of the hooks in the picture  $4\frac{1}{2}$  ft., find how the tension of the string is altered by lengthening the string from 7 to 10 feet.

2. If  $P, Q, R$  be three forces in equilibrium, acting at a point, show that

$$P : Q : R :: \sin \hat{Q}R : \sin \hat{RP} : \sin \hat{PQ},$$

where  $\hat{QR}$  represents the angle between the lines of action of the forces  $Q$  and  $R$ , etc.

Forces  $P, P, 2P$  act at a point parallel to three adjacent sides of a regular hexagon; find the magnitude and direction of their resultant.

3. Show that the algebraical sum of the moments of two dissimilar unequal parallel forces about any point in their plane is equal to the moment of their resultant about that point. If the forces be equal what becomes of the resultant, and how must the theorem be stated?

4. Show that the centre of gravity of a uniform triangular lamina lies on any of the lines joining the vertices to the middle points of the opposite sides at a distance equal to two thirds of its length from the vertex.

From an isosceles right-angled triangle  $ABC$  (right angle  $C$ ), another isosceles triangle  $ABP$  is cut out. If the c. g. of the remainder be at  $P$ , show that the sides of the triangle  $ABP$  must be in the ratio  $\sqrt{5} : 4$ .

5. State the Laws of Friction and explain how the coefficient of Friction is found experimentally.

Find the horizontal force which will (i) just support, (ii) just push a body of weight  $W$  up an inclined plane of angle  $a$ , the coefficient of friction being  $\mu$ .

6. In a balance which rests in a horizontal position when unloaded, but whose arms are of different lengths, a body appears to weigh  $W_1$  in the one scale, and  $W_2$  in the other. Show that the true weight is  $\sqrt{W_1 W_2}$ :

If in such a balance the apparent weights be 24 and  $28\frac{1}{2}$  lbs. and the whole length of the beam be 2 ft. 1 in., find the length of either arm.

7. Define velocity (1) when uniform, (2) when variable, and distinguish it from speed; show how to find the velocity of one moving point relative to another moving point.

To a person travelling eastward at the rate of 5 miles an hour, the wind appears to blow from the north; when he doubles his speed, it appears to blow from a point  $30^\circ$  to the east of north. Find the velocity and direction of the wind.

8. State Newton's Laws of Motion and explain how, from the Second Law, we get a means of measuring force.

A certain force acting on a mass of 1 stone produces a velocity of 60 ft. per sec. in 5 secs. Compare the force with the weight of 1 lb., and find the acceleration it would produce in a ton.

9. A mass of 11 lbs. is tied to a string and rests on a smooth plane inclined to the horizon at angle 30° : the string passes over the top of the plane and to the other end is tied a mass of 19 lbs. If the plane be 5 ft. long, and the 11 lb. mass start from the foot of the plane, how long will it take to mount the plane and what is the tension of the string at any instant?

10. A particle is projected in any way under gravity; find the greatest height to which it will rise, and show that the velocity at any point is equal to that which would be acquired in falling freely from a certain horizontal straight line.

11. Define amplitude, period, phase of a Simple Harmonic vibration, and find an expression for the velocity at any point.

The amplitude of a s. h. vibration is 6 ft. and the period 4 secs. How long does the moving point take to go from a point 3 ft. on one side to a point 3 ft. on the other side of the mean position and what is the velocity and acceleration at either of these points?

#### *Voluntary Questions.*

12. What is the astronomical reason for the earth being divided into torrid, temperate, and frigid zones?

13. Represent on a figure the position of a star whose R. A. is 6 h. 20 m. and declination 0° at 7 p.m. on 21st April in latitude 58° N.

14. Define the terms: ecliptic, hour angle, longitude, sidereal day, dip.

15. What is meant by the 'error' and 'rate' of a clock? How are they found?

If the error of a clock be 2 sec. and the rate 0.5 sec., find to the nearest hundredth of a second the true time of transit of a star, the observed time being 6 h. 20 m. 23.42 sec.

16. What is meant by Astronomical Refraction and what is its effect on the apparent position of a star?

#### *SECOND PAPER.—Three hours.*

1. Explain the hydrostatic principle of equal transmission of pressure in a fluid. How is this principle applied in the Bramah press? Explain how to calculate the total pressure which a Bramah press affords.

2. Find the pressures on the sides and bottom of a cubical tank (bottom horizontal), 7 feet high, two-thirds filled with salt water, sp. gravity, 1.14.

3. A balloon is filled with 10,000 cubic feet of hydrogen at temperature 18° C., and pressure 75.6 c.m. of mercury. It ascends and the temperature of the gas becomes 3° C. and the pressure 62.4 c.m. Find the volume.

4. Why is the air thermometer made the standard for temperature? Describe a *practical* standard air thermometer. Define  $0^{\circ}$  C.,  $100^{\circ}$  C., and  $62^{\circ}$  C., the last on the form of air thermometer which you describe.

5. A hole is cut in a block of ice, and a piece of lead weighing 123 grammes, and at the temperature of boiling water, is dropped into it. How much ice is melted?

[Specific heat of lead,  $\frac{1}{30}$ .]

6. Describe an arrangement for determining temperatures by means of a thermo-junction. Describe the thermopile and multiplier of Melloni.

7. A crystal of Iceland spar is laid down on a white sheet of paper on which a black spot has been made; and, while thus resting on the paper, the spar is turned round over the spot. Describe and explain what is seen.

8. Define *potency* of a lens. On what does it depend? Define focal length, and show how to calculate it from the curvature of the lens surfaces and the refractive index of the transparent substance.

9. Explain how to calculate the true velocity of sound in a gas such as hydrogen or oxygen, at any temperature, from a knowledge of the density of the gas and the velocity of sound in air at  $0^{\circ}$  C.

Define also height of the homogeneous atmosphere, and show how to calculate it.

10. Define magnetic declination, inclination, horizontal force, total force. How is the horizontal force at a place determined, and how is the total force calculated when the horizontal force is known?

11. Define electrostatic specific inductive capacity. How did Faraday compare the specific inductive capacities of various substances?

12. Describe experiments for showing current induction. Describe and explain the action of the Rhumkorf coil.

13. Define one ampere, one volt, one ohm. Write down the equations which express the fundamental laws of Ohm and Joule, connecting electromotive force, current, resistance, and work done by a current.

## II. FOR DEGREE OF M.A. WITH HONOURS.

(AND FOR SCHOLARSHIPS, ETC., NOVEMBER, 1891.)

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LATIN TRANSLATION.—*Three hours.*

Translate :

1. (a) Virg. *Ene.* VII., 293—304.  
 (b) Hor. *Odes* IV., 2. 5—20.  
 (c) Hor. *Sat.* I., 4. 96—106.  
 (d) Tac. *Ann.* III., 59.  
 (e) Liv. XXI., 36, 6, 7.  
 (f) Juv. *Sat.* XI., 136—148.
  2. Two of the following passages :—  
 (a) Cic. *Phil.* VI., 5.  
 (b) Cic. *Attic.* I., 16, 10.  
 (c) Pers. *Sat.* IV., 42—52.  
 (d) Luer. *De Nat. Rer.* II., 23—33.
  3. (a) Quint. X., 1. 106—109.  
 (b) Lucan. I., 120—140.
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LATIN PROSE. *Three hours.*

In most cases where a permanent change has been effected in the government and in the modes of political thinking of a country, this has been mainly because the nation has become ripe for it through the action of general causes. A doctrine which had long been fervently held, and which was interwoven with the social fabric, is sapped by intellectual scepticism, loses its hold on the affections of the people, and becomes unrealised, obsolete and incredible. An institution which was once useful and honoured has become unsuited to the altered conditions of society. The functions it once discharged are no longer needed, or are discharged more efficiently in other ways, and as modes of thought and life grow up that are not in harmony with it, the reverence that consecrates it slowly ebbs away. Social and economical causes change the relative importance of classes and professions till the old political arrangements no longer reflect with any fidelity the real disposition of power. Causes of this kind undermine institutions and prepare great changes, and it is only when they have finally done their work that the men arise who strike the final blow and whose names are associated with the catastrophe. So evidently is this the case that some distinguished writers have maintained that the action of special circumstances and of individual genius, efforts, and peculiarities counts for nothing in the great march of human affairs, and that every successful revolution must be attributed solely to the long train of intellectual influences that prepared and necessitated its triumph.—LECKY.

GREEK TRANSLATION.—*Three hours.*

1. Translate:—

- (a) Hom. *Odys.* V., 59—74.
- (b) Thuc. III., 53. 1—3.
- (c) Thuc. VI., 27, 3—28, 2.

2. Translate one passage from each of the following sections:—

- A. (a) Aeschy. *Eum.*, 795—810.  
(b) Eur. *Iphig. in Aul.*, 1568—1583.
- B. (a) Soph. *Oed. Col.*, 1065—1083.  
(b) Pind. *Isth.*, 1. 55—75.  
(c) Pind. *Olym.*, 6. 1—21.
- C. (a) Plat. *Phaedo*, 84 A, B.  
(b) Plat. *Protag.*, 337 D—338 A.

3. Translate:—

- (a) Arist. *Poet.* IX., 2.
  - (b) Apoll. Rhod. *Arg.* III., 955—971.
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GREEK PROSE.—*Three hours.*

If life is a present which any one foreknowing its contents would have willingly declined, does it not follow that any one would as willingly give it up, having well tried what they are? I speak of the reasonable, the firm and the virtuous; not of those who like bad governors are afraid laying down the powers and privileges they have proved unworthy of holding. Were it certain that the longer we live the wiser we become and the happier, then indeed a long life would be desirable; but since on the contrary our mental strength decays and our enjoyments of every kind not only sink and cease, but diseases and sorrows come in their place, if any wish is rational, it is surely that we should go away unshaken by years, undepressed by griefs, and undespoiled of our better faculties. Life and death appear more certainly ours than whatsoever else: and yet hardly can that be called ours, which comes within our knowledge and goes without it; or that which we cannot put aside if we would, and indeed can anticipate but little. What value then should be placed upon it by a prudent man when duty or necessity calls him away? Or what reluctance should he feel on passing into a state where at least he must be conscious of fewer checks and inabilities? Such as the brave commander, when from the secret and dark passages of some fortress wherein implacable enemies besieged him, having performed all his duties and exhausted all his munition, he issues at a distance into open day.—LANDOR.

## GENERAL PAPER.

LATIN—*Three hours.*

1. A. Translate with short notes upon the syntax and where necessary upon the meaning:—

- (a) Adveniet justum pugnae, ne arcessite, tempus,  
 Cum fera Carthago Romanis arcibus olim  
 Exitium magnum atque Alpes inmittet apertas.  
 Tum certare odiis, tum res rapuisse licebit.
- (b) possem tantos finire dolores  
 Nunc certe, et misero fratri comes ire per umbras.  
 .... O quae satis alta dehiscat  
 Terra mihi, Manisque deam demittat ad imos !
- (c) Tu, nisi ventis  
 Debes ludibrium, cave.
- (d) Laevo suspensi loculos tabulamque lacerto,  
 Ibant octonis referentes Idibus aera.
- (e) Accipe ceras,  
 Scribe, puer, vigila, causas age, perlege rubras  
 Majorum leges aut vitem posce libello.
- (f) At etiam litteras, quas me sibi misisse diceret, recitavit homo  
 et humanitatis expers et vitae communis ignarus.
- (g) Adversum patrum factiones multa populus paravit tuendae  
 libertatis et firmandae concordiae.
- B. Sketch the historical development of Latin prose style from Cicero  
 to Tacitus.
- C. Describe the position of men of letters under the Empire.
2. Discuss *two* of the following subjects:—
- (a) The position of the Romans at the beginning of the Second Punic War.
  - (b) The *Ordo Equester* and its policy during the last century of the Republic.
  - (c) The Reforms of Caesar during his Dictatorship.
  - (d) The reasons which led to the acceptance of the Empire both by Romans and by Provincials.
  - (e) The *Comitia* under the Empire.
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### GREEK—*Three hours.*

1. A. Translate with short notes upon the syntax, and, where necessary, upon the meaning:—

(a) Ος τὰ καταβρέσσειν, ἐπὶ ρεμοτά μαρτυρίην.  
 Οἱ κεριφθητοι γε βιλοι καταδικεῖσθαι παρειών.

(b) Λιταρέγω ποτὶ γαστρας χειρας αἰρεων  
 Βαλλον ἀποθετων ποτὲ φαστηνον.

(c) Κοινώσας δὲ τῷ επιμονα τοῖς Ακαρναῖοις οἱ πρωτοδέσαντο διὸ τῆς  
 Λειτάδος τὴν οὐ περιττήτερη, αἵτοι τῇ λαπή στρατιᾳ ... ἐστράτευσεν ἐπὶ<sup>τοῦ</sup>  
 Αίτωλοις.

(d) Οἱ δὲ ικαττοι ή ἵε τοι Νέγων πείθειν ούται η στασιάζων ἐπὸ τοῦ  
 κουροῦ λαβῶν ἄλλην γῆραν καταποθέσας, οἰκήστειν, ταῦτα ἔτουιάζεται.

(e) Οὐκέ τοσθ' θπως Νέγαιν τοι φύειδι καλα.

(f) Either (1) Διτελεγητος γάρ οὐ

or (2) Σαφεις γάρ εἴπει Τερρανας οὐ μη ποτε

Σοε τήρητε γάρ οίκον πτος εἰς πραξειν πόλιν.

- B. Discuss the nature of the Speeches found in the History of Thucydides.
- C. What part did Comedy play in public life at Athens?
2. Discuss *two* of the following subjects:—
- The Legislation of Lyeurgus.
  - The influence of the Delphic Oracle in the early history of Greece.
  - How far did the Athenian constitution approach to an Ideal Democracy?
  - The siege-operations of the Athenians before Syracuse.
  - The Political clubs at Athens.
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## LOGIC.

### FIRST PAPER—*Three hours.*

(*Candidates are requested to answer SEVEN questions.*)

- Give a brief account of philosophical systems in Greece prior to Socrates.
  - How does Socrates interpret the Protagorean doctrine that “man is the measure of all things”? How does he criticise it? Is it capable of another interpretation?
  - What precisely is the ground, and what the process in the Dialectic Method of Hegel? Is there any variation in the method? Illustrate by reference to the *Phänomenologie* and the *Logik*.
  - What does Descartes mean by the distinction between Substance, Mode, and Attribute? What form does the distinction take in Spinoza?
  - Explain the function of the *Schema* in the doctrine of Kant. Examine it.
  - What does Reid mean by “natural and original judgments”? What is the significance of his doctrine in the history of philosophy? Is there any difference between Reid and Kant as to the guarantee of what is ultimate in knowledge?
  - The place and value of Experimental (or Organic) Psychology.
  - What is meant by the doctrine of the “Relativity of Sensation”? Is it to be distinguished from the theory of the “Relativity of Knowledge”? How far is it identical with Green’s view that “all knowledge is knowledge of relations”?
  - “The real is the rational, the rational is the real.” Examine this.
  - “Resemblance is merely veiled identity.” What significance has this contention for psychology and philosophy?
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### SECOND PAPER—*Three hours.*

(*Candidates are requested to answer SEVEN questions.*)

- Notice various views as to the nature and province of Logic. Compare generally the Logic of Hegel with that of Aristotle.
- (a) “Judgment is the comparison of one idea with another and the recognition of congruence or confliction between them”; (b) “Judgment is of matters of fact.” Compare and criticise these definitions of Judgment.

3. Notice the nature of Inference, the distinction of Immediate and Mediate Inference, and the various kinds of the former. Notice the Hegelian use of the term *Mediate*.

4. Are hypothetical propositions reducible to categorical, or *vise versa*? Give the laws of the Hypothetical (or Conditional) and the Disjunctive forms of Reasoning. Is disjunction necessarily exclusive?

5. Give a brief account of Bacon's laws of Induction. Compare with Mill's, and add remarks.

6. Are "cause" and "reason" the same? Notice in this connection the place of "Sufficient Reason" in Logic.

7. State and compare the laws of Reasoning in Extension and Comprehension.

8. What is meant by Modality of propositions? How does Formal Logic deal with modal judgments? "The possible is a species of the genus necessary." In what sense can this be maintained?

9. Is it possible to recognise the law of non contradiction as valid for the Understanding, and superable for Reason or some supposed higher faculty?

10. The syllegism is said to be a *petitis principiis*. Indicate the argument by which it is sought to establish this paradox. How would you propose to meet it?

## MORAL PHILOSOPHY.

### FIRST PAPER.

(*Candidates are requested to answer SEVEN questions.*)

1. What suggestions does Plato's Republic contain for a philosophy of the Beautiful? Note any real or apparent contradictions in his view of the function of Art.

2. Is there any principle discernible in Aristotle's scheme of the virtues? Compare his treatment of Justice with Plato's.

3. "Aristotle evades by a compromise the difficulties which modern Ethics has to solve." Explain and examine this statement.

4. "The best translation of *causa sui* in Spinoza's ethics is 'the unconditioned.'" Explain this statement, connecting it with Spinoza's general doctrine of causality.

5. Dr. Stirling maintains that "Kant has *not* answered Hume." What grounds are there for such a view?

6. Explain what Kant means by the distinction between the categories of the Understanding and the Ideas of Reason. Does this distinction reappear in any form in his theory of morals?

7. What advances have recent evolutionary theories of Ethics made upon Mr. Spencer's doctrines as to (1) the Social Organism, (2) Natural Rights, (3) Absolute Ethics?

8. Discuss Green's view of Motive. Is it in harmony (1) with ordinary language, (2) with the results of accurate psychological analysis?

9. "A subjective theory of morals like that of Kant leads inevitably to pessimism." Examine this statement.

## SECOND PAPER.

1. "First Principles cannot be proved." Is this true, and, if not, how is such proof possible?
  2. "Pantheism necessarily makes God the author of evil." How is this charge met by Pantheists like Spinoza? Is their answer satisfactory?
  3. Compare the views of Evolution given by Hegel and Mr. Spencer.
  4. "If Pessimism is true, it differs from other truths by its uselessness." What assumptions are here made as to (1) the relation between Theory and Practice, (2) the Moral Postulate.
  5. Discuss Green's treatment of the problem of Freedom.
  6. What light is the study of animal life capable of throwing upon the life of man?
  7. "The application of legal conceptions of private rights to Politics produces nothing but confusion." Examine this.
  8. Discuss Montesquieu's division of the powers of the State.
  9. "Moral perfection would be the end of morality, for when it was attained impulse would become its own law." Examine this.
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## MATHEMATICS.

FIRST PAPER—*Three hours.*

1. If a straight line be perpendicular to each of two straight lines in a plane, it is perpendicular to any straight line in that plane.

The edges  $AB, CD$  of a tetrahedron are perpendicular, and  $KK'$  are the orthocentres of the faces  $ABC, ABD$ . Prove that  $KK', AB$  are perpendicular.

2. In any conic, if the normal at  $P$  meet the axis in  $G$ , prove that the ratio  $SG : SP$  is equal to the eccentricity.

If through  $X$  the foot of the directrix a parallel to  $SP$  be drawn, meeting the perpendicular on the directrix in  $U$ , and  $U$  be joined to  $N$  the foot of the ordinate of  $P$  by a line meeting  $SP$  in  $Q$ , show that  $PQ$  is equal to the semi-latus rectum.

3. If an equilateral hyperbola circumscribe a triangle, it passes through the orthocentre, and conversely.

Give a construction for drawing a tangent to an equilateral hyperbola at any point on the curve.

4. Insert  $n$  Arithmetic and  $n$  Harmonic means between  $a$  and  $b$ : and show that if  $a_r, h_r$  be the  $r$ th terms of the two series of means

$$\sum_1^n \frac{a_r}{h_r} = n + \frac{1}{6}n(n+2)(a-b)^2/(n+1)ab.$$

5. Assuming the expansion of  $e^x$  deduce that of  $\log(1+x)$ ; and determine when this series is convergent.

By expanding  $\log(1+x^4)$  in two different ways, show that

$$2^{2m+1} - (4m+2)2^{2m} + \frac{(4m+2)(4m-1)}{1 \cdot 2} \cdot 2^{2m-1} - \frac{(4m+2)(4m-2)(4m-3)}{1 \cdot 2 \cdot 3} 2^{2m-2} + \dots = 0.$$

6. If  $r, R$  be the radii of the inscribed and circumscribed circles of a triangle, prove that

$$r = 4R \sin \frac{A}{2} \sin \frac{B}{2} \sin \frac{C}{2}.$$

If  $I$  be the centre of the inscribed circle,  $r_1, r_2, r_3$  the radii of the circles inscribed in the triangles  $BIC, CIA, AIB$  show that

$$\frac{a}{r_1} + \frac{b}{r_2} + \frac{c}{r_3} = 2\left(\cot \frac{A}{4} + \cot \frac{B}{4} + \cot \frac{C}{4}\right).$$

7. Find the condition that the general equation of the second degree should represent two straight lines, and find the co-ordinates of their point of intersection.

Show that the length of the diagonal, which does not pass through the origin, of the parallelogram formed by the two pair of lines

$$ax^2 + 2hxy + by^2 + 2gx + 2fy + c = 0,$$

$$ax^2 + 2hxy + by^2 = 0,$$

is  $(f^2 + g^2)^{\frac{1}{2}}/(h^2 - ab)^{\frac{1}{2}}$ .

8. Investigate the polar equation to a conic.

If a circle drawn through the focus of a parabola cut the curve in four points, show that the sum of the cosines of the inclinations to the axis of the focal radii to these points is equal to  $-2$ .

9. Find the equation to the normal to the curve  $\phi(xy) = 0$ .

From the fact that the centre of curvature is the point of intersection of two consecutive normals, deduce the co-ordinates of the centre of curvature and the length of the radius of curvature.

10. Investigate a general method of finding the rectilineal asymptotes of an algebraic curve of the  $n$ th degree.

Write down the equation to the cubic whose asymptotes are  $x \pm y = 0$ ,  $x - 2y - 3$ ; which touches the axis of  $x$  at the origin and goes through the point  $(3, -2)$ ; and find on which side of each asymptote the curve lies.

11. Integrate  $\sqrt[3]{2ax - x^2} dx$ ,  $\sec^2 \theta d\theta$ ,  $x^2 \tan^{-1} x dx$ .

Prove that  $f(E), a^x X, a^x f(aE), X$ .

Solve the difference equation

$$u_{n+2} - au_{n+1} - u_n = b^n,$$

and consider the case of  $b=a$ .

### SECOND PAPER.—Three Hours.

1. Express  $(a+bi)^{c+di}$  and  $\log_{c+di}(a+bi)$  in the form  $A+Bi$ .

Prove that the real part of  $(-1)^{k-1+i(n-1)}$  is

$$e^{-\frac{\pi}{8}} \cos\left(\frac{\pi}{4} \log 2\right).$$

2. If  $D_n$  denote the  $n$ -rowed determinant

$$\begin{array}{cccccc} 2 \cos \theta & 1 & 0 & 0 & \dots & 0 \\ 1 & 2 \cos \theta & 1 & 0 & \dots & 0 \\ 0 & 1 & 2 \cos \theta & 1 & \dots & 0 \\ \dots & \dots & \dots & \dots & \dots & \dots \\ 0 & \dots & \dots & \dots & \dots & 2 \cos \theta \end{array},$$

prove that  $D_n - 2 \cos \theta \cdot D_{n-1} + D_{n-2} = 0$ .

Solve this equation, and hence show that the value of the determinant is  $\sin(n+1)\theta/\sin \theta$ .

## 3. Prove Lhuilier's theorem

$\tan \frac{1}{2}E = \{\tan \frac{1}{2}s \tan \frac{1}{2}(s-a) \tan \frac{1}{2}(s-b) \tan \frac{1}{2}(s-c)\}^{\frac{1}{2}}$ ,  
where  $E$  is the spherical excess, and  $2s = a + b + c$ .

Hence show that if the sides of the triangle be small compared with  $r$  the radius of the sphere, the area of the spherical triangle is approximately equal to  $S\left(1 + \frac{a^2 + b^2 + c^2}{24r^2}\right)$ , where  $S$  is the area of the plane triangle whose sides are equal in length to those of the spherical triangle.

4. Find the equation to the conic touching the ellipse  $x^2/a^2 + y^2/b^2 = 1$  at the point  $(hk)$ ; and deduce the equation to the osculating conic.

Show that the equation to the parabola having four point contact with the above ellipse at the point is

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} - 1 = \left(\frac{hx}{a^2} + \frac{ky}{b^2} - 1\right)^2.$$

5. Find the volume of a tetrahedron referred to rectangular axes  
(i) when the co-ordinates of the corners are given, (ii) when the equations to the faces are given; and deduce the condition that the planes should pass through a point.

6. Find the equations to the circular sections of the quadric

$$ax^2 + by^2 + cz^2 = 1,$$

and investigate the equation to all quadries coneyclic with it.

Find the conditions that the section of the quadric  $xy + yz + zx = a^2$ , by the plane  $lx + my + nz = p$  should be (1) a circle, (2) a rectangular hyperbola.

7. Define a Line of Curvature on a surface; and investigate a quadratic giving the lengths of the principal radii of curvature of the surface  $\phi(xyz) = 0$ .

Find the equations to the lines of curvature and the principal radii of curvature of the surface  $xyz = a^3$ .

8. Evaluate the definite integrals

$$\int_0^x e^{-ax^2} \cos bx dx, \quad \int_0^x e^{-x^2} \cdot x^m dx, \quad \int_0^x \frac{\log(1 + a^2 x^2)}{1 + b^2 x^2} dx.$$

9. When one solution of the differential equation

$$\frac{d^2y}{dx^2} + P \frac{dy}{dx} + Qy = 0$$

is known, show how to find the complete solution of the equation

$$\frac{d^2y}{dx^2} + P \frac{dy}{dx} + Qy = R,$$

where  $P, Q, R$  are functions of  $x$ .

Solve the equation

$$\cos^2 x \frac{d^2y}{dx^2} - \sin x \cos x \frac{dy}{dx} - y = \tan x.$$

10. Solve the equations

$$(i) \quad x^2 \frac{d^3y}{dx^3} + x^2 \frac{d^2y}{dx^2} - 2y = x^2.$$

$$(ii) \quad \frac{d^3y}{dx^3} + y = e^{2x} \sin x + e^{\frac{x}{2}} \sin \frac{x\sqrt{3}}{2}.$$

$$(iii) \quad 2yzdx - xzdy - xydz = 0.$$

11. If  $Y_m$ ,  $Y_n$  be the two surface spherical harmonics of degrees  $m$  and  $n$ , find the value of

$$\int_{-1}^{+1} \int_0^{2\pi} Y_m Y_n d\mu d\phi,$$

- (i) when  $m$  and  $n$  are different, (ii) when  $m = n$ .

Show that

$$\int Y_m(u\phi) \cdot P_n(\cos \gamma) d\mu d\phi = \frac{4\pi}{2n+1} \cdot Y_n(\mu'\phi'),$$

where  $\cos \gamma = \cos \theta \cos \theta' - \sin \theta \sin \theta' \cos(\phi - \phi')$ , and  $P_n$  is the zonal harmonic of the  $n$ th order.

## NATURAL PHILOSOPHY.

### FIRST PAPER—*Three hours.*

1. Define the central axis of a system of forces, and find its equation.

Three equal forces intersect the same straight line at right angles at points  $A_1, A_2, A_3$ , such that  $A_1A_2 = A_2A_3 = c$ . Show that the central axis meets the same line at right angles at a point whose distance from  $A_2$  is

$$c(\cos \hat{A}_1A_2 - \cos \hat{A}_2A_3) \{3 + 2(\cos \hat{A}_1A_2 + \cos \hat{A}_2A_3 + \cos \hat{A}_3A_1)\}, \text{ where } \hat{A}_iA_j \text{ is the angle between the forces which act at } A_iA_j.$$

2. Prove that the volume of the solid, generated by the revolution of an area about a straight line, is equal to the product of the area into the path described by the centre of gravity of the area.

Find the volume of the solid formed by making a loop of the lemniscate  $r^2 = a^2 \cos 2\theta$  revolve (i) about the initial line, (ii) about a line in the plane of the curve perpendicular to the initial line.

3. Write down the equations of equilibrium of a heavy string at rest under gravity, and find the form in which the string hangs when the normal section at any point is proportional to the tension. Show that the radius of curvature at any point varies as the tension.

4. Find the periodic time of a particle moving in a straight line under a force in that line varying inversely as the square of the distance.

A uniform spherical shell, whose outer radius is double the inner one and which attracts according to the law of nature, is pierced by a fine tube passing through the centre of the shell. A particle starts from the outer surface of the shell and oscillates in the tube. Find the period of a complete oscillation.

5. Find the law of force necessary for motion in an ellipse about the focus; and show that the velocity at any point can be resolved into two constant velocities, one perpendicular to the major axis and the other perpendicular to the radius vector.

When at the end of the minor axis, the body receives a small blow along that axis. Find the change in the elements of the orbit.

6. Define an apse, and show that in a nearly circular orbit under a force  $\propto (\text{distance})^n$ , the apsidal angle is  $\pi/\sqrt{3+n}$ .

A particle of mass  $m$  is tied to one end of a fine string, and describes a circle of radius  $a$  on a smooth table. The string passes through

a hole in the table and supports a mass  $m'$ . If the motion be slightly disturbed show that the apsidal angle is

$$\pi(m+m')/3m^{\frac{1}{2}}.$$

7. Find the potential of a uniform solid sphere at an internal point.

A sphere is placed in a uniform field of force of strength  $A$ . Show that inside the sphere the level surfaces are spheres, whose centre is at a distance  $3A/4\pi\rho$  from the centre of the solid sphere.

8. Show that at a point where the density is  $\rho$  the potential of a system of bodies satisfies the equation

$$\nabla^2(V) + 4\pi\rho = 0.$$

Find the form which this equation assumes when we transform to a new set of coordinates  $\xi, \eta, \zeta$  given by

$$\xi = a^2x/r^2; \quad \eta = a^2y/r^2; \quad \zeta = a^2z/r^2,$$

where  $r^2 = x^2 + y^2 + z^2$ .

9. Investigate Fourier's double integral theorem

$$f(x) = \frac{1}{\pi} \int_{-\infty}^{\infty} \int_0^{\infty} f(x') \cdot e^{-hx} \cos a(x' - x) da \cdot dx'.$$

Hence (or otherwise) show that the steady temperature at any point of a semi-infinite slab bounded by the plane of  $xz$  with that face kept at temperature  $f(x)$  is

$$\frac{y}{\pi} \int_{-x}^{x} f(x') \cdot \frac{dx'}{y^2 + (x - x')^2}.$$

10. Find the steady temperature at any point of a solid sphere which radiates into a medium at zero temperature.

A spherical shell, whose radii are  $a$  and  $b$ , has its inner surface kept at temperature  $a + \beta \cos\theta$ , and the outer at temperature  $\gamma \cos 3\theta$ . Find the steady temperature at any internal point.

11. Find the temperature due to a continuous source of constant strength.

Hence find the temperature at any point of a straight rod of length  $a$  coated with impermeable varnish; the initial temperature being a given function of the distance from one end, and the ends being kept at zero temperature.

#### SECOND PAPER—Three hours.

1. In an infinite homogeneous solid at uniform temperature, let an infinitely small portion be suddenly heated by a finite quantity  $q$  of heat. Find the temperature at time  $t$  at a distance  $r$  from the place thus primitively heated.

2. Find the distribution of temperature at time  $t$  in an infinitely thin ring with given initial distribution; supposing the ring to be coated with impermeable varnish.

3. State and explain the Hamiltonian characteristic equation for the motion of a material point confined to one plane. Illustrate it by ordinary parabolic motion, and explain its relation to aiming.

4. Find the Hamiltonian characteristic function for rays of light passing from a given point  $P$  on one side to another given point  $P'$  on the other side, of a convex lens; both points infinitely near the axis.
5. Investigate the expression for fluid pressure in irrotational motion of a liquid, under the influence of gravity.
6. State the general law of circulation in any closed line of particles of a liquid; and deduce Helmholtz's laws of vortex motion.
7. Investigate the principal flexural rigidities of a beam of any given cross section; or investigate the flexural rigidity of a rod of circular cross section.
8. Investigate the electric images in two infinite conducting planes meeting at a right angle; supposing an electrified body to be fixed anywhere in this angle.
9. Investigate the density of electricity on an uninsulated conducting sphere of radius  $r$  due to a quantity  $q$  of electricity, concentrated at a point distance  $D$  from the centre of the sphere.
10. Find how much zinc is consumed per hour in a battery of 80 Daniell cells (1.07 volts per cell) sending a current of electricity through an incandescent lamp whose resistance is 65 ohms. The battery is joined in series, and its total internal resistance is 7 ohms. (One coulomb decomposes 0.000092 grm. of water; atomic weight of zinc 65.)

### III.—FOR DEGREE OF B.Sc.

#### A.—IN NATURAL SCIENCE.

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##### FIRST EXAMINATION.

1. Mathematics—See pp. 329—331.
  2. Natural Philosophy—See pp. 332—334.
  3. Chemistry—See p. 377.
  4. Botany—See pp. 377, 378.
  5. Zoology—See p. 378.
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##### SECOND EXAMINATION.

#### GROUP II. CHEMISTRY.—*One hour and a half.*

1. ·650 grm. of galena gave ·532 grm. of lead sulphate. What percentage of lead and of sulphur did the galena contain? How could this galena be converted into sulphate?

$$(Pb = 207.)$$

2. How would you ascertain the presence of sulphur in an organic substance, such as coal, or coal gas? In what forms does sulphur occur in coal?

3. Give an outline classification of the most common types of inorganic salts.

4. What are the chief metallic oxides that are precipitated from salt solutions by ammonia, and are dissolved by adding excess of the reagent? How can they be distinguished in ammoniacal solution from one another?

5. What common gases are absorbed by water, alcohol, mercury, and potash respectively?

B.—IN ENGINEERING SCIENCE.

a.—MATHEMATICS.

FIRST PAPER—*Three hours.*

1. If a solid angle be contained by three plane angles, prove that the sum of any two is greater than the third.

2. State and prove the proposition regarding the rectangles contained by the segments of two intersecting chords of a parabola. State the same proposition in the form in which it is true for any conic.

3. Define an asymptote, and prove that the area of the triangle formed by the asymptotes and a tangent to a hyperbola is constant.

4. Find the polar equation to a circle whose centre is on the prime vector.

The radius vector through the origin meets the circle in  $P, P'$ ; and another point  $Q$  is taken so that ' $Q = PP'$ . Find the locus of  $Q$ .

5. Find the equation to a parabola referred to a tangent and the diameter through the point as axes. To what geometrical property does this equation correspond?

6. Find the equation to the chord of contact of two points on an ellipse whose eccentric angles are  $\alpha, \beta$ ; and find the coordinates of the point of intersection of the normals at these points.

7. Investigate the conditions that the general equation of the second degree should represent (i) a rectangular hyperbola, (ii) a parabola.

Trace the curve

$$4x^2 + y^2 - 4xy - 24x + 22y + 61 = 0.$$

8. Define a differential coefficient and find the differential coefficients of  $x^n, e^x, \sin x$ .

Differentiate  $x^n e^{ax} \sin^m x, \log \left( \frac{2x \sin \log x}{x^2 - 1} \right)$ .

9. State and prove Leibnitz' Theorem.

Find the 4th differential coefficient of  $x^5 \cos^3 x$ .

10. Find an expression for the remainder after  $n$  terms in Taylor's series. Under what conditions is the expansion possible?

11. Find the equation to the tangent to the curve  $\phi(xy) = 0$ .

Find the length of the perpendicular from the origin on the tangent at the point  $(\xi, \eta)$  to the curve

$$x^{\frac{5}{2}} + y^{\frac{5}{2}} = a^{\frac{5}{2}}.$$

12. Evaluate the integrals:

$$\int e^x \sin mx dx, \quad \int \operatorname{cosec} x dx, \quad \int \frac{2x+1}{x^2 - 4x + 3} dx.$$

SECOND PAPER.—*Three hours.*

1. Show that the number of shot in a complete pyramid, the base of which is an equilateral triangle with  $n$  shot in each side, is  $\frac{1}{6}n(n+1)(n+2)$ .
2. Find the number of combinations of  $n$  letters taken  $r$  at a time.  
In how many ways can 12 things be divided equally among 3 persons?
3. Prove that  $\log(1+x) = x - \frac{1}{2}x^2 + \frac{1}{3}x^3 - \dots$ .
4. Prove that  $r = 4R \sin \frac{A}{2} \sin \frac{B}{2} \sin \frac{C}{2}$ ,

where  $r$ ,  $R$  are the radii of the inscribed and circumscribed circles.

If  $r_1 r_2 r_3$  be the radii of the escribed circles, show that

$$r_1 r_2 r_3 = r(r_1 r_2 + r_2 r_3 + r_3 r_1).$$

5. Show that one root of the equation

$$8x^3 - 24x^2 + 18x - 3 = 0$$

is  $3 \cos 20^\circ$  and find the other roots.

6. Prove De Moivre's theorem and simplify

$$\left(\sin \frac{\pi}{3} + i \cos \frac{\pi}{3}\right)^{\frac{1}{2}} : \left(\sin \frac{\pi}{3} + i \cos \frac{\pi}{3}\right)^{\frac{1}{2}}.$$

- 7-13. See p. 331.

## b.—NATURAL PHILOSOPHY.

1. DYNAMICS—*Three hours.*

1. Show that two simple harmonic motions of the same period, in one straight line and about the same point in that line, are equivalent to a single simple harmonic motion.

2. State the principal properties of couples; and prove that they can be resolved and compounded according to the ordinary parallelogram law.

3. Find the positions of the centres of gravity of (i) an arc of a circle, (ii) a quadrant of an ellipse, (iii) an octant of a spherical surface.

4. State the Laws of Friction.

A ladder rests against a wall in a vertical plane, the wall and the ground being both rough (coefficient of friction  $\mu$ ), and a man ascends the ladder. Write down the equations of equilibrium when the ladder is just on the point of slipping, and hence find the inclination of the ladder.

5. A weightless string is stretched in one plane over a rough surface and is on the point of moving. Find the relation between the tensions at the ends.

6. Find the attraction of a uniform spherical shell at an external and also at an internal point; and express the result in dynes. [Given, Earth's radius =  $6.37 \cdot 10^6$  c.m.; Earth's mass =  $6.14 \cdot 10^{24}$  gr.; weight of 1 gr. at Earth's surface = 981 dynes.]

7. Define the Potential due to a system of gravitating masses and find the potential of a uniform straight rod at an external point.

8. Find the maximum range for a body projected up an inclined plane in a plane passing through the line of greatest slope; and show that for a given range there are two directions of projection equally inclined to that for maximum range.

9. Find the time of oscillation of a simple pendulum to a second approximation.

10. Investigate expressions for the accelerations along and perpendicular to the radius vector of a particle moving in a plane curve ; and deduce the polar differential equation of a central orbit.

11. A particle moves in a central orbit under a force varying inversely as the square of the distance. Show how the nature of the orbit depends on the velocity of projection.

12. In a central orbit, prove that

$$(1) \quad P = \frac{h^2 dp}{p^3 dr}, \quad (2) \quad pr = h,$$

and deduce the law of force and the velocity at any point for a body moving in a cardioid  $r=a(1+\cos\theta)$  about a centre of force at the cusp.

2. PHYSICS. See Second Paper, pp. 333, 334.

### c.—ENGINEERING.

#### FIRST PAPER—*Two hours.*

1. Give a short account of the processes in the preparation of pig-iron from clay iron stone. What are the most important impurities in cast iron, and how does each affect its qualities?

2. Distinguish between cast iron, wrought iron, ingot iron, mild steel, and steel, as to composition, properties, and uses.

3. Give an account of the Siemens' regenerative principle as used in metallurgical processes, and describe two examples of its application.

4. Give a short account of the properties of different alloys of copper and tin, and copper and zinc, and mention their chief uses in the arts.

5. Describe the differences in structure of yellow pine, oak, ash, mahogany, and box-wood in relation to their uses in construction, and state some of the principal purposes for which each is specially suited.

6. Describe how the pattern would usually be made and the moulding carried out for a right-angled bend of 3" flanged pipe.

7. Distinguish clearly between the meanings to be attached to the terms, force, stress, work, and energy, and illustrate your answer by reference to an engine raising a weight of 22 cwt.s. by means of a wire rope from a mine 1540 feet deep.

8. State and illustrate the principle of the conservation of energy and the principle of "virtual velocities."

#### SECOND PAPER—*Three hours.*

(Each candidate may select either A or B.)

##### A.

1. It is required to determine the angle subtended at a point *A*, by two objects *B* and *C*, *B* being  $\frac{1}{2}$  chain from *A*, and *C* about 12 chains from *A*. Describe how you would proceed to measure the angle *BAC* by means of a theodolite, explaining the temporary adjustments which it would be necessary to make ?

2. Sketch and describe the telescope of a theodolite with special reference to its optical construction. Describe the objective and eye-piece.

3. On receiving a new Gravatt's (Dumpy) level from the makers how would you proceed to test it as to its permanent adjustments; and how would you make the adjustments if necessary?

4. Book the levelling observations represented diagrammatically on the accompanying sheet, and work out the reduced levels. Check the field book.

5. Describe the optical square, and explain why double reflection is used and not a single mirror set at 45° to the line of direct vision.

6. Explain any method of telemetry with which you are acquainted.

7. Two straight lines of railway are to be connected together by a curve of 40 chains' radius. The pegs setting out the line of the railway are not required to be equally spaced along the straight parts and the curve. Explain how you would proceed to set out the line, assuming that the point of meeting of the straight lines produced is accessible.

8. Discuss the relative merits of the prismoidal and mean areas methods of determining the volume of railway earth works.

9. A set of contour lines in the bed of a reservoir enclose the following areas:—

Water level surface,	-	-	Area 3,130,000 sq. yards.
2 ft. down,	-	-	.. 2,680,000 ..
4 ft. ..	-	-	.. 2,100,000 ..
6 ft. ..	-	-	.. 1,300,000 ..
8 ft. ..	-	-	.. 560,000 ..
8·2 ft. ..	-	-	.. zero.

Find the volume of the reservoir in cubic yards.

### B.

1. Of what three quantities may we consider the *total heat* of dry saturated steam to be made up? The temperature of dry saturated steam at a pressure of 146 lbs. per sq. inch absolute is 356° F. The total heat of 1 lb. of such steam (from water at 32° F.) is 919,000 ft.-lbs. and its volume 3·06 cub. ft. Calculate approximately the three quantities referred to.

2. Describe and prove the principle of Amsler's Planimeter. Explain how it is used in connection with the working out of the indicated horse power of an engine.

3. Criticise with respect to the working of the engine each of the indicator diagrams shown in the accompanying sheet.

4. Determine roughly the indicated horse power of the engine from the data given in the accompanying sheet.

5. Describe Carnot's Reversible Heat Engine, and show in what sense it is "perfect." Show a diagram for the engine working with water and steam, the whole being in the condition of water at its boiling point when the volume is least.

6. Describe and illustrate the cycle of an ideal steam engine working with complete isothermal condensation on the return stroke. Why is the efficiency of such a cycle less than that of Carnot's cycle for the same higher and lower temperatures?

7. Discuss the question of the "action of the sides" of the cylinder of a steam engine, and in connection therewith the question of steam jacketing.

8. How may a supply of coal for use in a boiler furnace be sampled, and its calorific value ascertained?
9. Discuss different methods in use for attaching the shell and flues to the front of Lancashire boilers, and the methods of staying the fronts, and in connection therewith explain the detrimental effects of over-stiffening the front.
10. Discuss the relative advantages of jet condensers and surface condensers under different circumstances. Sketch and describe one form of condenser.
11. Explain the nature and arrangement of the stress in a cylindrical shaft subject to simple torsion. A shaft 2" diameter running at 100 revolutions per minute is suitable for transmitting 25 H.P. when the torque is uniform. What diameter of shaft will be alike suitable for transmitting 43 H.P. at 85 revolutions per minute? Would such a calculation be applicable to the question of crank shafts of engines?

### THIRD PAPER—*Three hours.*

1. In regard to the testing of specimens of mild steel, discuss the question of the influence of the form and size of the specimen on the result, and treat especially of the influence of the ends whether these be larger than the body or not.
2. Draw diagrams of shear and bending moment for the loaded beam shown on the accompanying sheet.
3. Show how the safe curvatures and deflections of beams vary with their lengths, breadths, and depths, other things being the same.
4. Investigate a formula for the strength of cylindrical shafts subjected to simple torsion, and find the diameter of a shaft which will be suitable to transmit the torque given by a belt acting on a pulley 3 ft. diameter, making 170 revolutions per minute, the tensions being 750 lbs. and 280 lbs. at the two sides respectively. Take shearing strength of iron as 22 tons per square inch and allow a factor of safety of 6.
5. Find the stresses in the loaded frame shown on the accompanying sheet, all points of meeting of bars being taken as joints. Give a rule by which to find for each bar whether the stress is push or pull.
6. On what principles are Gordon's and Euler's formulas for the strengths of columns respectively based? Euler's formula is often given in the form
- $$P = \pi^2 \frac{IE}{\lambda^2}$$
- Explain this formula, and show what value  $\lambda$  has when the column is rounded at both ends, and when it is held directionally at both ends.
7. Prove the formula  $Q = C(L - anh)h^{\frac{3}{2}}$  for the flow of water over rectangular gauge notches.
8. For water flowing in the pipe of varying section shown on the accompanying sheet discuss in general terms the transformations of energy which will take place as the water flows from a position of approximate rest at  $A$  to a position of approximate rest at  $B$ .
9. A reaction turbine (Barker's Mill) has 2 circular orifices 2 in. diameter at radii of 2 ft. from the axis, arranged to spout the water

tangentially. It is supplied with water the free level for which is 40 ft. above the orifice. Find the couple acting on the turbine when it is prevented from revolving friction being neglected. Prove the formula you use.

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## HONOURS.

### SUPPLEMENTARY PAPER No. 1.—*Three hours.*

1. Find the three supporting forces, the points of contrary flexure, and the maximum bending moment for a uniform and uniformly loaded continuous girder of two equal spans.
2. Investigate the deflection of a straight spring of uniform breadth, and having a longitudinal section consisting of two parabolas with their vertices at the ends and meeting base to base at the middle, when the spring is supported at the ends and loaded in the middle.
3. Determine the stresses in the frame shown on the accompanying sheet, when loaded with 8 tons uniformly distributed over the whole length and 6 tons uniformly distributed over the left hand half of the upper member. All points of meeting of bars are to be taken as joints. Explain the significance of the lines  $ER$  and  $TW$  in the stress diagram. Scale of forces  $\frac{1}{4}$  in. to 1 ton.
4. A jet of water issues through a circular orifice 2 in. diameter in a thin flat plate, from a vessel in which the statical water has a pressure of 100 lbs. per square inch; the jet impinges centrally upon a hollow blade 8 in. diameter dished to the form of a portion of a sphere of 8 in. radius. Find the resultant force upon the blade when it is moving from the orifice with a velocity equal to  $\frac{1}{2}$  that of the jet, and when moving with a velocity  $\frac{1}{3}$  that of jet. Compare the efficiencies as regards energy utilised in the two cases. Neglect the effect of friction of the water on the blade.
5. Discuss the efficiency of the simple reaction turbine (Barker's Mill), and explain in connection therewith why turbines are now made with guide blades in a fixed chamber besides those in the wheel. Describe an inward flow and a parallel flow turbine.
6. A cylindrical vessel 2 ft. diameter and 3 ft. high is filled with water and set revolving about its axis. Draw the section of the vessel and the water when the vessel makes 150 revolutions per minute and the water rotates with it. Also investigate the form of the section of the water when the vessel is stationary, and a small stream of water continuously enters it tangentially at the upper edge with a velocity of 6 in. per second, and escapes through a hole 2 in. in diameter in the centre of the bottom of the vessel. Neglect the friction of the water on the vessel in making the investigation, but state what effect it will have on the motions of the water.
7. Investigate, from first principles, the resilience of a helical spring formed of round wire, in terms of the volume, the safe working shear stress, and the modulus of rigidity of the steel of which it is composed. Design a spring to give a deflection of 1 in. for a load of 200 lbs. and to bear safely 500 lbs. Take the working stress as 50,000 lbs. per square in., and the modulus of rigidity as 12,000,000 lbs. per square in.

## HONOURS.

SUPPLEMENTARY PAPER No. 2.—*Three hours.*

1. A leather belt, 4" wide and 0·20" thick, transmits 20 H.P. from a pulley 4' 6" diameter to one 3' 3" diameter; the distance between the centres of the pulleys is 8 feet, and the driving pulley makes 300 revolutions per minute. Assuming the belt to be perfectly flexible, and taking the density of the leather as 0·04 lbs. per cubic inch, and the co-efficient of friction as 0·3, find the least tension which will serve for the tight stretch of the belt, neglecting sagging. Prove the formulas you use, and state any assumptions involved in them.

2. Investigate the distribution of shear stress over a transverse section of a beam, and find the maximum shear stress in a beam of I section, 12' long, 6" deep, flanges 4" broad, thickness of flanges and web  $\frac{1}{2}$ ", supported at the ends and carrying a load at the centre which produces a maximum pull stress of 4 tons per sq. inch.

3. Investigate the stresses in a thick hollow cylinder subjected to internal pressure.

4. The driving wheels of a four coupled passenger locomotive are 6' 9" diameter, the coupling rod is 8' 6" long, and may be assumed to be of uniform rectangular section,  $4\frac{1}{2}'' \times 1\frac{1}{2}''$  throughout, the coupled cranks are 12" radius. Show the variations of the stresses in the rod due to inertia during one revolution of the wheels, and find the maximum values of the stresses when the engine is running at 65 miles per hour.

5. Discuss the errors to which indicator diagrams are subject through friction and inertia of the drum and pencil gear.

6. Give a short account of the nature and principal results of recent experimental and analytical investigations on the friction of lubricated journals. Discuss the question of the lubrication of the slide block of a steam engine.

7. Construct a diagram of velocities for the piece A of the mechanism shown on the accompanying sheet, when the crank E revolves uniformly at 100 revolutions per minute. Find the greatest stress in the link B due to the inertia of the piece A which weighs 60 lbs. (neglect friction).

8. A flexible cord, 40 feet long, weighing 100 lbs. per foot, hangs from two points on the same level and at such a distance apart that the lowest point of the cord is 12 feet below the level of the points of suspension. Find the distance apart of the points of suspension, and the tension of the cord at those points and at the centre.

Compare those tensions with the greatest and least tensions of a flexible cord, suspended from the same points and having the same sag, but loaded with 4000 lbs. uniformly distributed horizontally.

9. A shaft weighing 2 tons is supported by journals 4" diameter in V bearings, of which one face slopes at  $70^\circ$  and the other at  $40^\circ$  to the horizon; the journal makes 50 revolutions per minute, the descending motion being at the steeper bearing face; the co-efficient of friction is 0·09. Find analytically the pressures upon the bearing faces and the power expended in friction.

**d.—DRAWING, ETC.—*Three hours.***

1. Find the form in plan and elevation of the intersection of the right circular cone and cylinder of which the data are given in the accompanying sheet.

2. Draw the development of the cone and cylinder referred to in the preceding question, showing the true form of the curve of intersection on each of the developed surfaces.

3. Find the angle contained by the planes shown by their traces on the accompanying diagram. Also find the traces of the plane which bisects the angle contained by those planes.

4. For the point and plane given in the accompanying diagram, find the distance of the point from the plane.

5. Two intersecting lines make an angle (A) of  $15^\circ$  with each other: one line makes (B)  $20^\circ$  with the horizontal plane and the other makes (C)  $30^\circ$  with the horizontal plane: draw the projections of the two lines. Find the least possible and the greatest possible value for the angle (C), (A) and (B) remaining as given in the data.

6. State some of the uses of the funicular polygon in solving questions in graphical statics. For the loaded beam shown on the accompanying diagram, find by graphical construction (1) the magnitudes of the supporting forces, (2) construct a bending moment diagram, and (3) a shear diagram for the beam.

The scales to which the diagrams are drawn are to be shown. Find from your diagram and state numerically the bending moment and shear at the central section of the beam.

Find by means of the funicular polygon the position of the resultant of the loads.

7. Of Ruled Surfaces, explain the difference between a twisted surface and a developable surface. How is the twisted surface called a screw surface generated? For the ordinary Whitworth thread what angle does the generating line make with the axis? Draw correctly a section of a thread and a portion of the thread itself for a 1" bolt. Scale, 5 times full size.

8. Draw curves for the following trigonometrical functions referred to rectangular co-ordinates:—the sin, secant, cotangent, and versin.

9. Draw an isometric projection of a box having the following outside dimensions: length 12", breadth 8", depth 6", and thickness  $\frac{1}{2}$ ", and having a lid also of  $\frac{1}{2}$ " wood, 1" deep inside, the lid to be opened through an angle of  $120^\circ$ . A sphere of 6" diam. rests in the box, touching the back and one end. Scale, 3" to 1 foot.

**e.—NAVAL ARCHITECTURE.****RESISTANCE PAPER.—*Three hours.***

1. What length of fore-body is necessary by Scott Russell's theory for a vessel moving at a speed of 20 knots per hour?

2. Describe the method of obtaining the augmented surface which Rankine devised. What was the basis of his investigation of this quantity?

3. Prove that a submerged body moving at a uniform speed in a perfect fluid of unlimited extent meets with no resistance.
  4. State Froude's conclusions as to the principal causes of resistance to the motion of a model through the water.
  5. Describe the wave system which usually accompanies a ship moving at a uniform speed. State how this system becomes modified as the speed changes.
  6. For a vessel 360 feet long, 4000 tons displacement, wetted surface 19,000 square feet, 8,000 I.H.P. was necessary for a speed of 19 knots. Determine the resistance of a model 15 feet long which runs at a corresponding speed and is of similar form. Resistance per square foot of a surface 15 feet long at 400 feet per minute = '13 lbs. {for speed different to 400 feet per minute assume that resistance varies as  $(\text{speed})^2$ }. Resistance for a surface 360 feet long at 19 knots to be taken as 1.8 lbs. per square foot.
  7. Prove that if the resistance varies as the  $n^{\text{th}}$  power of the speed, that for all resistances for which Froude's law of comparison holds, the resistance will vary as the  $\left(3 - \frac{n}{2}\right)$  power of the linear dimensions. Deduce the value of  $n$  which will make the resistance independent of the dimensions.
  8. Suppose the E. Horse Power due to the edgewise resistance of a screw to be 25 per cent., and that due to the "augment" to be 15 per cent., and that the total engine friction = 7 per cent. I.H.P., and that the pump duty = 5 per cent. I.H.P., and that slip is 15 per cent. Find ratio of Effec. H.P. to I.H.P.
  9. Give the ratio of E.H.P. to I.H.P. in a large twin screw vessel, a small twin screw vessel, a large single screw vessel, and a paddle vessel. All are assumed to be high-speed vessels.
  10. State what information it is desirable to obtain at a speed trial on the measured mile. Sketch a form showing how this information is best recorded. Show how to obtain an approximately correct mean speed from the results of four runs, two with and two against a varying tide.
  11. Describe the method of obtaining the engine friction due to dead load.
  12. What are the resistances other than those due to the naked hull of the vessel in a twin screw ship. State the value of these resistances approximately.
  13. Describe the method adopted by Mr. Froude to determine the ratio of thrust to turning moment in a propeller. State the assumptions as to the resistance of an element of a screw blade, and write down the equation from which the efficiency of this element can be determined.
  14. Give the assumptions upon which Mr. S. Barnaby's table for determining the diameter and revolutions of a propeller are based. Show how the constants given in his table will have to be modified if some of the assumptions are modified.
- Find the diameter for maximum efficiency of a propeller developing 10,000 I.H.P. and running at 100 revolutions per minute. Speed of ship 20 knots. (Use Barnaby's Table.)

STABILITY PAPER. — *Three hours.*

1. Show that

$$v(g_1 h_1 + g_2 h_2) - V \cdot BG \text{ Vers} \theta + V \int_0^\theta GZ d\theta$$

... dynamical stability up to the angle  $\theta$ ,

$v$  being the volume of the wedge of immersion or emersion at an angle  $\theta$ ,  $g_1$  and  $g_2$  the centres of gravity of wedge immersion and emersion respectively,  $h_1$  and  $h_2$  being the feet of the perpendiculars upon the inclined water line from  $g_1$  and  $g_2$  respectively.  $V$  being the volume of displacement,  $B$  the centre of buoyancy in an upright position, and  $G$  the centre of gravity of the ship.

2. Describe the method of obtaining the value of  $GZ$  by polar integration. To do this sketch the headings of the preliminary and combination tables, and show how the corrections for moment and volume are made.

3. Define a cross curve of stability and explain fully any direct method by which a cross curve can be obtained at a given angle of heel.

4. Define a surface of buoyancy and show that it is a closed surface with no re-entering parts.

5. Show how to obtain spots on a curve of locus of metacentres (or centres of curvature of the surface of buoyancy) from the curve of stability.

6. Discuss the question of the number of positions of absolute stability and instability which occur in a floating body.

7. Deduce the formula for the radius of curvature of the surface of buoyancy in terms of the moment of inertia of the water line area about an axis through its centre of gravity and volume of displacement.

If  $I_L$  and  $I_T$  be the moments of inertia of the water lines of a ship about longitudinal and transverse axis respectively, show how to obtain the value of  $I$  for some intermediate direction of inclination at an angle  $\theta$  to fore and aft line.

8. Deduce an expression giving the rise of metacentre due to a change of draft in terms of  $V$ ,  $I$ , and  $y$  the volume of displacement, the moment of inertia of water line about an axis through its centre of gravity and the depths of the centre of buoyancy below the water line respectively.

Deduce the condition which must hold in order that the metacentre and the centre of curvature of the curve of flotation shall be coincident.

9. A small vessel is floating in equilibrium in a bucket of water. The bucket with the water and small vessel are allowed to fall down a well, the vertical axis of the bucket remaining in a vertical upright position during the fall. What is the resistance to inclination of the vessel during its fall?

10. State the condition for stable equilibrium in a completely submerged body that has no tendency to rise or to sink.

11. Deduce the equation to, or construct the surface of buoyancy and locus of centres of curvature of this surface for a prismatic vessel having a square section and a water line at half its depth.

12. State the relation between the centres of curvature of the curves of flotation and buoyancy, and their distances from the water line and the centre of buoyancy.

MARINE ENGINEERING PAPER.—*Three hours.*

1. What is the mean pressure of this indicator card? What would be the I.H.P. developed by a cylinder (double acting) of which this is an average card—Diameter cylinder 25 inches, stroke 40 inches, revolutions 100 per minute?
2. Suppose the above cylinder to be the H.P. cylinder of a triple expansion engine with three cylinders, and the I.H.P. of each to be the same. The L.P. cylinder is 80 inches diameter and same stroke as H.P., what will be the mean pressure of the three cylinders referred to the L.P.?
3. What ratio of cylinders would you propose for a three cylinder triple expansion engine for a long-journey cargo steamer, boiler pressure to be 160 lbs. per square inch? Supposing steam to be cut off at .65 in the H.P. cylinder, what mean pressure would you expect referred to L.P.?
4. Given the indicator cards of both ends of a cylinder, how would you proceed to obtain a true diagram of piston effort per square inch of piston area? Show how a combined crank-pin effort diagram is obtained? How do you get the maximum twisting moment from this diagram?
5. Length  $p$  represents  $P$  the piston effort,  $p$  is line with the crank,  $T$  is the crank-pin effort,  $t$  is perpendicular to crosshead guide. Prove that  $t$  to same scale as  $p$  represents  $T$ .
6. What maximum stress would you allow in the tunnel shaft of an ordinary merchant steamer? Suppose the engines of such a steamer to indicate 6000 H.P., what would be the diameter of the tunnel shaft if it were made hollow, the internal diameter being one-half of the external diameter? Ratio of maximum to mean twisting moment = 1.4.
7. Sketch an ordinary form of main bearing for a large shaft; the brass to be white metal bushed. Show all details.
8. Sketch roughly a bottom end bolt for a large connecting rod, showing any particular details. Show how the bolt is kept from turning and the nut from slackening back. How would you calculate the diameter of the bolt?
9. Calculate what diameter of bolts would be necessary for a tunnel shaft of a steamer 10 inches in diameter when there are six bolts, pitch circle 14 inches diameter.
10. Sketch a steel conical piston for an L.P. cylinder of an ordinary triple expansion engine 100 inches diameter. Show how the piston rod is held in the piston. Also show the packing at edge of piston in detail; the type of packing to be a common split ring with coach springs. Show the joint in the ring. What would you make the breadth of the ring? How would you fix the diameter of the piston rod?
11. Calculate the strength of this joint in per cent. of the strength of the original plate per pitch, taking the shear strength of rivets 85 per cent. of tensile strength of plate. Supposing it to be the longitudinal seam in a boiler, what would you make the thickness of the straps?
12. Make a sketch showing what you consider to be the best method of securing the end of a furnace to the combustion chamber in a marine boiler. Show both views.
13. What diameter and length of boiler tubes do you consider to be ordinary practice in a large merchant steamer having good natural draft. Show the ordinary ways of securing the stay tubes in the tube plates.

SHIP CALCULATIONS.—*Three hours.*

(In questions involving arithmetical work, full marks will only be given when the calculation is accurately made.)

1. Find the volume of a paraboloid of revolution, the diameter of whose base (circular) is 10 inches, and whose height is 12 inches; also that of a cone of the same limiting dimensions. What is the height of the centre of gravity of the cone above the base?
2. State Simpson's first and second rules for plane areas, and prove the first rule for three equidistant ordinates  $y_1, y_2, y_3$ . Show how this rule is applied to find the centre of gravity of a plane area.
3. State how these rules can be applied to finding the volume of displacement of a ship and its centre of buoyancy.
4. Define the "metacentre." Deduce the rule for finding the height of the transverse metacentre of a ship, and show how it is applied in practice.
5. Find the displacement, centre of buoyancy (longitudinally and vertically), the transverse and the longitudinal metacentres corresponding to the following ordinates:—

No. of Section	W.L. 0 feet.	4 feet.	8 feet.	Sections 9 feet apart.
1,	2·0	4·0	5·0.	
"	3·0	6·0	8·0.	
"	4·0	7·5	10·0.	
"	4·5	8·5	11·5.	
"	5·0	9·0	12·1.	

6. Show that in similarly shaped ships the height of the transverse metacentre above the centre of buoyancy varies directly as the square of the breadth and inversely as the draft; also show that the moment to trim ship is approximately represented by a constant times the square of the length of the ship multiplied by its breadth. Give the value of this constant for any ship you know.
7. A vessel of 10,000 tons displacement 420 feet long has a moment to trim ship 1 inch of 1000 ft. tons; the centre of gravity of the water-line plane is 5 feet abaft the middle of the length. A weight of 200 tons is put on board 100 feet before the middle of the length, and another weight of 100 tons is shifted aft through 50 feet; the tons per inch immersion is 45. Find the change of draft at each end of the ship due to these changes.
8. State the precautions which are necessary to be observed in order to be able to obtain correct results in inclining a vessel.
9. Describe fully the method of obtaining the curve showing the variation in height of centre of gravity of a ship as the density of cargo varies.
10. How would you approximate to the height of centre of gravity of a ship at launching? What do you consider a minimum metacentric height allowable?
11. Give a formula for obtaining the vertical position of the centre of buoyancy of a ship when the area of the water line, the displacement, and draft are given.

12. Describe fully how the gross tonnage and under deck tonnage of a ship are determined. What are the percentage reductions allowed for machinery space when the measured machinery space is above 20 per cent. of gross tonnage.

13. Describe how you would get out a set of lines for a vessel of given dimensions, midship section and block coefficient, on the assumption that there was a parallel middle body and that both ends were alike, and were based on a versed sine curve of sectional areas.

14. Explain how you would find the change of draft of water at the ends of a ship on account of the bilging of a compartment.

**STRENGTH PAPER.—Three hours.**

(*Engineer Students are not to attempt questions marked \*.* All first year and  
*Engineer Students are not to attempt questions marked †.*)

(*In questions involving arithmetical work, full marks will only be given when  
the calculations are accurately made.*)

1. Prove that the area of the curve of loads up to any point will give the shearing force at that point. What does the area of the bending moment curve up to any point give?

2. In the formula  $\frac{P}{y} = \frac{M}{I}$ , state what the different symbols mean, and by what units they are usually measured.

3. A vessel of 25 feet beam and 15 feet depth has a wood deck 3 inches thick of pine, and a steel deck of plating averaging  $\frac{3}{8}$  inch thick, side and bottom plating is  $\frac{5}{8}$  inch thick, and there are two keelsons in the bottom, one on each side, besides the centre keelson; each keelson has a sectional area of 10 square inches, centres of keelsons are  $1\frac{1}{2}$  feet above base. Assuming the section of the ship to be quite square, find the stress per square inch on the upper deck for a hogging moment of 600 ft. tons, and also for a sagging moment of 500 ft. tons; all plates to be assumed between 4 feet and 5 feet wide.

4. A vessel 400 feet long floating in smooth water has a cargo of 4266 tons. Her weight of hull may be assumed to be 12 tons per foot for two thirds of her length amidships, decreasing uniformly to the ends, where it is 6 tons per foot. Her machinery and coals, weighing 1800 tons, occupy 100 feet amidships, and may be assumed to be uniformly distributed over this length (neglecting shafting and propeller). The cargo extends only before and abaft the machinery space, and is stowed for  $83\frac{1}{3}$  feet at each end at the rate of 16 tons per foot, from which points to the extremities it gradually decreases to 8 tons per foot. The buoyancy is uniform for three-fourths of the length, decreasing uniformly to the ends where it is zero. Find the maximum bending moment and shearing force.

5. What length and height of wave would you assume a vessel 400 feet long to be placed upon in order to calculate her probable maximum bending moment?\* What is the relation between the length of a wave and its period?

6. \* State how you would proceed to construct a trochoidal wave, and to make the necessary drawings and calculations for finding the curve of supporting forces for a vessel in this wave, and instantaneously balanced in the crest of it, taking full account of the varying processes due to the orbital motion of the particles.

7. The moment of inertia of the section of a ship about a horizontal transverse axis through its centre of gravity is  $I_x$ . The moment of inertia about an axis at right angles to this, and at the middle line of the ship,  $I_y$ . Suppose that the neutral axis in this latter position is at a distance  $d$  from the middle line. Find the position of the neutral axis for an angle of inclination of the vessel of 45 degrees. The area of section to be taken as 1 for all positions. What is the value of the moment of inertia of section at this inclination?

8. Give a formula from which the diameter of a round pillar, such as a ship's stanchion, of considerable length to carry a given load can be determined. What is the load upon such a pillar (wrought iron), 4 inches in diameter and 15 feet long, which will cause it to buckle?

9. † What do you understand the elastic limit of a material to be? † What is the average elastic limit of mild steel used for shipbuilding purposes? † Draw an approximate diagram of strain in terms of stress for a test piece of mild steel of ordinary testing size and section, stating size assumed.

10. † What do you understand by the term bearing pressure as applied to riveted joints? † What is the maximum amount usually allowed? † Show how this quantity affects the pitch and diameter of rivets in terms of the thickness of the plate.

11. State what you know about the relation between the bending moment of different ships in relation to their displacement and length. Also what stresses are considered safe working stresses in a ship assumed to be supported on a wave of her own length, neglecting the variation of pressures due to the orbital motion of the particles of the wave.

12. Why is a double butt strap in a ship usually the strongest type of butt connection? Calculate the strength of a double butt strap joint, straps 12 inches wide on a plate 50 inches wide and  $\frac{3}{8}$  inch thick, the rivets being spaced about 3 diameters apart in the closest row, and being omitted in alternate spaces in the other rows. If the frame space of the ship be 30 inches, show how much stronger or weaker the butt is than the section of the plate through the frame line, edge riveting being double.

13. \* Assuming that the pressure on a plane moving through the water at 10 feet per second is 112 lbs. per square foot, multiplied by the cosine of the angle of the normal to the line of motion, and that it varies as the square of the speed, find the diameter of the rudder stock of a vessel having an ordinary rudder of 50 square feet of area, its centre of pressure being assumed 3 feet from the axis of the rudder, and the speed of the vessel 20 knots. Maximum stress permissible is 5 tons per square inch; rudder is set at  $30^\circ$  to line of motion.

14. † Make a rough sketch showing the stresses which come upon the framing of a ship when she is in dry dock resting upon keel blocks. † How are these stresses likely to be modified in a vessel floating at rest with a homogeneous cargo sufficient to fill the ship? State what assumptions you make in answering this question.

## f.—GEODESY.

1. State the duration of each of the three following years :—1st, the mean solar or tropical year ; 2nd, the sidereal year ; 3rd, the anomalistic year.
2. What is the annual value of the displacement of the earth's aphelion ; is the motion direct or retrograde ?
3. How may local time be determined by an observer at sea ?
4. Investigate the law of variation of the refraction of a celestial body in respect to its zenith distance.
5. Explain the process by which the constant of refraction may be determined.
6. Point out the important improvements introduced by Picard in his measurement of an arc of the meridian.
7. Explain the influence which this operation of Picard's exercised upon the researches of Newton in connection with the force of gravity.
8. State the result of Richer's experiments with the pendulum in Cayenne, and show how Newton inferred therefrom that the figure of the earth is spheroidal.
9. Explain the method of ascertaining the figure of the earth by means of observations with the pendulum.

## IV.—FOR DEGREES OF M.B. AND C.M.

## I. EXAMINATION IN GENERAL EDUCATION.

ENGLISH.—*Two hours.**30th September, 1891.*

1. Dictation.
2. Name and define the moods of the English verb. Write out the *present potential* and the *past subjunctive* of *laugh* and *be*.
3. Give the derivation of—*special*, *antagonism*, *celestial*, *torture*, *algebra*, *serene*, *care*; and illustrate the use of these prefixes—*au*, *be*, *circum*, *per*, *sub*.
4. What is *case*? How is it indicated in English?
5. Compare—*lovely*, *near*, *outer*, *evil*, *many*, and decline—*which*, *father*, *she*.
6. Write a short essay on—
  - (a) Napoleon,
  - or (b) One of Scott's Novels,
  - or (c) Travel.

7. Analyse the following sentence and parse the words in italics :—

“ I felt my cheek

*Alter*, to see the shadow *pass* away  
 Whose grasp had left the world so *weak*,  
 That *every* pigmy kicked it *as* it lay ;  
 And much I grieved to think how power and will  
 In opposition *rule* our mortal day,  
 And why God made *irreconcileable*  
*Good* and the means of good ; and for despair  
 I half disdained mine eyes' *desire* to fill  
 With the spent vision of the times that were  
 And *scarce* have ceased to be.”

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23rd March, 1892.

1. Dictation.

2. Write a short essay on “ The Advantages of a Liberal Education,” or on “ Mary, Queen of Scots.”

3. Give the derivation and meaning of the following words :—Chirurgeon, ornithology, preliminary, cavalier, neophyte, soldier.

4. What is meant by the expression “ Parts of Speech ”? Enumerate the Parts of Speech, with examples.

5. What is the meaning of “ Tense ” and of “ Mood ”? Enumerate the moods, and give the first person singular of every tense of the indicative mood of the verb “ to love.”

6. Name the sources from which the English language is derived, and give examples of words from each source.

7. Analyse the following passage, and parse the words in italics :—

We shall not spend a large expense of time  
*Before* we reckon with your *several* loves,  
 And make *us even* with you. My thanes and *kinsmen*,  
*Henceforth* be *ours*—the first that *ever* Scotland  
 In such an honour named.

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LATIN.—*Two hours.*

30th September, 1891.

1. Translate—

(a) Septimo oppugnationis die maximo eundo vento ferventes fusili ex argilla glandes tundis et ferre facta incula in casas, quae more Gallico stramentis erant tectae, iacere coepimus. Hostes maximo clamore sicuti parta iam atque explorata victoria turres testudine que aere et scalis vallum ascendere coepimus. At tanta militum virtus atque ea praeuentia animi fuit, ut, cum undique flamma torrentur maximaque telorum multitudine premerentur suaque omnia impedimenta atque omnes fortunas conflagrare intellegarent, non modo demigrandi causa de vallo decederet nemo, sed paene ne respiceret quidem quisquam, ac tum omnes acerrime fortissimeque pugnarent.

(b) Diverso interea miscentur moenia luctu,  
 et magis atque magis, quamquam secreta parentis  
 Anchise domus arboribusque obiecta recessit,  
 clarescunt sonitus armorumque ingruit horror.  
 excutior somno, et summi fastigia tecti  
 ascensu supero atque arrectis auribus asto :  
 in segetem veluti cum flamma furentibus austris  
 incidit, aut rapidus montano flumine torrens  
 sternit agros, sternit sata laeta bovomque labores  
 praecipitesque trahit silvas ; stupet inscius alto  
 accipiens sonitum saxi de vertice pastor.

2. Give the genitive plural, gender, and meaning of *nox*, *nix*, *ciniſ*, *iter*, *domus*, *nubes*, *mensis*, *dies*.

3. Give the exact meaning of *quisque*, *quisquis* : *iste*, *ipse* : *tot*, *toties* ; and distinguish between *f̄agit*, *f̄ugit* ; *reḡeris*, *reḡeris*, *regaris* ; *quaestus*, *questus*.

4. Conjugate *disco*, *floo*, *findo*, *ingo*, *cupio*, *aufero*, *obliviscor*, *moriō*.

5. Translate into Latin—

(a) Having come to Cicero at Rome, Caesar advised (*moneo*) him to flee to Greece.

(b) We must all die (*moriō*), but we shall die more happily if we forgive (*ignosco*) our enemies.

(c) Our men were ordered to set out at the third watch and to march (*iter facere*) for ten hours.

6. Translate into English—

Quod iussi sunt, faciunt, ac subito omnibus portis eruptione facta, neque cognoscendi quid fieret, neque sui colligendi hostibus facultatem relinquunt. Ita commutata fortuna eos, qui in spem potiundorum castrorum venerant, undique circumventos interficiunt, et ex hominum milibus amplius triginta, quem numerum barbarorum ad castra venisse constabat, plus tertia parte imperfecta, reliquos perterritos in fugam coniuncti, ac ne in locis quidem superioribus consistere patiuntur.

23rd March, 1892.

1. Translate—

(a) Instat vi patria Pyrrhus; nec clauſtra, neque ipsi Custodes ſufferre valent. Labat ariete crebro Janua, et emoti procumbunt cardine postes. Fit via vi; rumpunt aditus, primosque trucidant Immissi Danai, et late loca milite complent. Non ſic, aggeribus ruptis quum ſpumeus amnis Exit, oppoſitasque evicit gurgite moles, Fertur in arva furens cumulo, camposque per omnes Cum stabulis armenta trahit.

(b) Tum demum Titurius, qui nihil ante providisset, trepidare et cursare cohortesque disponere, hæc tamen ipsa timide atque ut eum omnia deficere viderentur; quod plerumque iis accidere conſuevit, qui in ipso negotio consilium capere coguntur. At Cotta, qui cogitasset hæc

posse in itinere accidere, atque ob eam causam profectionis auctor non fuisse, nulla in re communi saluti deerat, et in appellandis cohortandisque militibus imperatoris, et in pugna militis officia praestabat.

2. Give the gender, genitive plural, and meaning of *-obses, humus, caro, ūs, ūs, crinis, manus, palus, calcar, uauta*.

3. Conjugate *pergo, lino, iuro, cupio, posco, haurio, reor, ulcisor, rido, sedeo*.

4. Give the Latin for —29 women, the eleventh horse, the general was not obeyed, to no man, the youngest son, two thirds, the rest of the soldiers.

5. Translate into Latin—

At the third watch (*vigilia*) Caesar ordered Labienus to seize (*occupo*) the top of the hill and send on (*praemitto*) one cohort to pursue the enemy. Next day Caesar was informed by scouts (*explorator*) that Labienus had defeated the Gauls and done what he had ordered. He therefore praised the bravery (*virtus*) of our men, and promised to give them great rewards (*præmium*) when he returned (*redeo*) to Rome.

6. Translate—

*Eodem fere tempore Caesar, etsi prope exacta jam astas erat, tamen, quod, omni Gallia pacata, Morini Menapiique supererant, qui in armis essent neque ad eum unquam legatos de pace misissent, arbitratus id bellum celester confici pessè, eo exercitum adduxit; qui longe alia ratione, ac reliqui Galli, bellum gerere coaperunt. Nam quod intellegebant maximas nationes, qua prælio contendissent, pulsas superatasque esse, continentespue silvas ac paludes habebant, eo se suaque omnia contulerunt.*

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## ARITHMETIC.—*Two hours.*

30th September, 1891.

1. Find the difference between fifteen times eighty-nine thousand and seventy-three and the seventh part of two hundred and forty million sixty-three thousand and fifty-four.

2. A swimmer takes 19 strokes a minute and goes  $2\frac{1}{4}$  yards each stroke; how long does it take him to swim half a mile?

3. Find the greatest number which will exactly divide both 618234 and 712923; find also the smallest number which is exactly divisible by both the numbers.

4. If a hundredweight of sugar cost £1 19s. 8d., find the price of 2 tons 3 qrs.

5. A vessel when full of water weighs  $57\frac{1}{2}$  lbs. and when  $\frac{2}{3}$ ths of the water has been withdrawn it weighs only  $39\frac{1}{2}$  lbs. What does the vessel weigh when empty?

6. Simplify  $14\frac{1}{2} - 9\frac{1}{2} + 17\frac{1}{2} - 3\frac{1}{2}$   
 $\frac{1}{2} \times 4\frac{1}{2} + 5\frac{1}{2} - \frac{3}{4} \text{ of } 5\frac{1}{2} \text{ of } 8\frac{1}{2}$

7. What fraction of 35s. is equal to the sum of  $2\frac{1}{2}$  of 7s. 6d. and  $\frac{1}{2}$  of  $\frac{2}{3}$  of 3s.?

8. Simplify  $1\frac{1}{2} + 2\frac{1}{3} - 2\frac{2}{5} + \frac{1\frac{1}{2}}{2\frac{1}{2}} - 6\frac{2}{5}$   
 $3 - 2\frac{1}{2} + 1\frac{1}{25} - \frac{1}{2} \div \frac{1}{5}$

9. How long would a column of men extending 3420 feet in length take to march through a street a mile long, at the rate of 58 paces a minute, each pace being  $2\frac{1}{2}$  feet?
- 

*23rd March, 1892.*

1. Multiply four million six hundred and eighty-seven thousand three hundred and nineteen by one thousand nine hundred and eighty-seven.
  2. Find the quotient and remainder when five hundred and thirty million, two hundred and three thousand, four hundred and forty is divided by three thousand and sixty-seven.
  3. If 2 cwt. 3 qr. 21 lb. of sugar cost £12 3s. 4d., what is the value of 17 cwt. 2 qr. 14 lb. at the same rate?
  4. Reduce the fraction  $\frac{1^2+2^2+3^2}{2^2+3^2+1}$  to its lowest terms.
  5. Which is the greatest and which is the least of the three fractions  $\frac{55}{113}, \frac{87}{288}, \frac{24}{7}$ ?
  6. Divide .06059 by .073, and also by 1460.
  7. How long would a man take to walk a distance of twenty miles if he took 105 steps of  $2\frac{1}{2}$  feet per minute?
  8. A father bequeathed to his eldest son  $\frac{1}{2}$  ths of his property, to his second son  $\frac{3}{4}$  ths of the remainder, and to his third son what was left? What was the share of each if the third son got £1086?
- 

### ELEMENTARY MATHEMATICS.—*Two hours.*

*1st October, 1891.*

1. Draw a straight line perpendicular to a given straight line from a given point without it.
2. The sum of any two sides of a triangle is greater than the third side.
3. The complements of the parallelograms which are about a diagonal of any parallelogram are equal.
4. Find the numerical value of  

$$abcd\left(\frac{1}{a} + \frac{1}{b} + \frac{1}{c} + \frac{1}{d}\right)^2 - (a+b+c+d)^2,$$
if  $a = \frac{1}{2}, b = \frac{2}{3}, c = \frac{3}{4}, d = \frac{4}{5}$ .
5. Arrange the following two expressions in descending powers of  $x$  and find their product  

$$3x - 1 + 2x^2 \text{ and } 3x^2 - 5 + 2x - x^4.$$
Also find the quotient and remainder when the product is divided by  $x^3 - 3x + 4$ .
6. Solve the equation, verifying the solution,  

$$4[3x - 7\{2x + 3(5x - 1)\}] + 9\{7x + 8(4 + 6x)\} = 0.$$
7. If a straight line be divided into two equal and also into two unequal parts the square on half the line is equal to the rectangle contained by the unequal parts together with the square on the line between the points of section.
8. Divide a straight line into two parts so that the rectangle contained by the whole line and one of the parts shall be equal to the square on the other part.

9. The straight line drawn at right angles to a diameter of a circle at one of its extremities is a tangent to the circle; and no other straight line can be drawn through this point so as not to cut the circle.

10. On a given straight line describe a segment of a circle which shall contain an angle equal to a given angle.

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*24th March, 1892.*

1. If two sides and the contained angle of one triangle be equal to two sides and the contained angle of another triangle, the two triangles shall be equal in every respect.

2. The opposite sides and angles of a parallelogram are equal to one another, and each diagonal bisects the parallelogram.

If two opposite sides of a quadrilateral be parallel but not equal, and the other two sides equal but not parallel, show that the opposite angles are together equal to two right angles.

3. If a straight line be divided into any two parts, the squares on the whole line and on one of the parts are together equal to twice the rectangle contained by the whole line and that part together with the square on the other part.

4. If a straight line drawn through the centre of a circle bisect a chord which does not pass through the centre, it shall cut it at right angles; and if it cut it at right angles it shall bisect it.

5. If a straight line touch a circle and from the point of contact a chord be drawn, the angles which this chord makes with the tangent shall be equal to the angles in the alternate segment of the circle.

By means of this proposition show that the tangents drawn to a circle from an external point are equal.

6. If  $x=1$ ,  $y=-2$ ,  $z=3$ , find the value of

$$3x^2 + 2y^2 - z^2 - 2xy - 4z$$

$$2xz - 3yz + z^2 - 2y(z - x)$$

7. Multiply  $2x - 3y - z$  by  $2x + 3y - z$ , and subtract the product from  $5x^2 - 8yz + 6yz$ .

8. Solve the equation

$$2[x(x - \frac{1}{2}(x - 3)) - (\frac{1}{2} - \frac{1}{3})] = 3[x^2 - 2x - \frac{1}{2}(2x^2 + (x + 1))].$$

9. A and B can together do a piece of work in 18 days. After working together for 3 days A went away and B finished it by himself in 25 days after. In what time would B by himself do the whole work?

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### MECHANICS.—*Two hours.*

*1st October, 1891.*

1. A ship sailing eastward at a velocity of 10 miles per hour is observed to change its course and proceed northward at the same speed; what is the magnitude and direction of its change of velocity?

2. A stone is projected vertically upwards with a velocity of 200 feet per second. How high will it rise, and how long will it take to reach its greatest height? [Take  $g=32$ .]

3. Define "momentum" and "force," and state the law which connects the force acting on a body with the momentum of the body.
4. The forces acting upon a train have a resultant in the direction of motion equal to the weight of 1155 lbs. Find the mass of the train if it acquires a velocity of 60 miles an hour from rest in 8 minutes.
5. Define "work" and "horse-power." Find the horse-power of an engine which can raise 20,000 gallons of water per hour from the bottom of a shaft 500 feet deep, assuming that a gallon of water weighs 10 lbs.
6. State the rule for finding the centre of inertia of a system of particles.
- Weights of 7 lbs. and 20 lbs. are hung at the ends of a uniform straight bar, whose length is 2 ft. 8 in. and weight 25 lbs.; find about what point in its length it will balance.
7. In the system of pulleys in which there are two blocks and the same string passes round all the pulleys, one end of the string is fastened to the upper block and the free end hangs downwards. Find the power needed to support a weight of 48 lbs., there being four pulleys in the lower block.
8. A body weighing 48 lbs. rests on an inclined plane, and is supported by a horizontal force of 15 lbs. Find the pressure on the plane.
9. Define "specific gravity." An iceberg floats with 2000 cubic feet above the surface of the sea. Find its volume, assuming its specific gravity to be .925, and that of the sea 1.025.
10. State Boyle's Law. The pressure on the surface of the sea is 15 lbs. on the square inch, and the weight of a cubic foot of water is  $62\frac{1}{2}$  lbs. If a diving bell contain 200 cubic feet of air at the surface, into what space will the air be compressed when the bell is lowered to a depth of 60 feet?

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*24th March, 1892.*

1. What is meant when it is said that the velocity of a particle can be resolved into two components? If a velocity be represented by one side of an equilateral triangle, and if one component be represented by half the base, what line will represent the other component and what angle will it make with the base?
2. A ball is fired vertically upwards with a velocity of 200 feet per second: how high will it go and how long will it take to reach its greatest height?
3. How is the change in the momentum of a moving body connected with the force that causes it? A mass of 10 lbs. is being pushed along a smooth table by a force equal to the weight of 1 lb.: how far will it go in 2 seconds?
4. Show how the centre of a set of parallel forces may be found. A uniform rod 6 feet long and weighing 3 lbs. has a weight of 2 lbs. placed at one end: find the centre of gravity of the whole.
5. If the arms of a balance are of different lengths, show how it may be used to find the true weight of a body. If the body weigh 9 lbs. when placed in one scale and 10 lbs. when placed in the other, find its true weight.
6. A body weighing 16 lbs. rests on an inclined plane and is supported by a horizontal force of 12 lbs. Find the pressure on the plane; find also

what power parallel to the plane would support the body and what the pressure on the plane would be in the latter case.

7. What is meant by the pressure at a point of a fluid? Find the pressure on a square inch at a depth of 25 inches in mercury, if the specific gravity of mercury be  $13\frac{1}{2}$ .

8. State Boyle's Law connecting the pressure and volume of a gas. If the pressure be 18 lbs per square inch when the volume is 81 cubic feet, what will it be when the volume is 18 cubic feet?

### GREEK. Two hours.

2nd October, 1891.

1. Translate into English—

(a) Ἐφείποντο δέ τῶν πολεμίων σινειλεγμένοι τινὲς καὶ τὰ μη δινάμενα τῶν ἵποσυγιῶν ἡρπαζον καὶ ἀλλῆλοις ἴμαχόντο περὶ αὐτῶν. ἐλείποντο δέ καὶ τῶν στρατιῶν οἱ τε ὁφθαλμίνοι ἵπο τῆς χιόνος τοῖς ὁφθαλμοῖς οἱ τε ἵπο τοῦ φύχοις τοῖς δακτύλοις τὸν ποδῶν ἀποεσηπότες. ἦν δέ τοῖς μὲν ὁφθαλμοῖς ἐπικούρημα τῆς χιόνος, εἰ τις μέλαν τι ἔχων πρὸ τῶν ὁφθαλμῶν πορεύοιτο, τῶν δὲ ποδῶν, εἰ τις κνοῦτο καὶ μηδέποτε ἥσυχιαν ἔχοι καὶ εἰς τὴν νύκτα ἐπολέμοιτο. οὗτοι δὲ ὑποδεδμένοι ἰκομάντο, εἰσεδόντο εἰς τοὺς πόδας οἱ ἴμαντες, καὶ τὰ ἱποδήματα περιεπήγνυντο· καὶ ἡσαν, ἐπειδὴ ἐπέλιπε τὰ ἄρχαῖα ἱποδήματα, καρβάτων πεποιημέναι ἐκ τῶν πεοδάρτων βοῶν.

(b) Καὶ πτίσας τὸ βιβλίον, ἀποδοὺς τῷ ἀπηρτέῃ ἰκάθισε· καὶ πάντων ἐν τῇ σιναγωγῇ οἱ ὁφθαλμοὶ ἡσαν ἀτενίζοντες αὐτῷ. καὶ ἐπλήσθησαν πάντες θυμοῦ ἐν τῇ σιναγωγῇ ἀκούοντες ταῦτα.

(c) Καλὸν τὸ ἄλας· εἴν τὸ ἄλας μωρανθῆ ἐν τίνι ἀρτιθήσεται; οὕτε εἰς γῆν οὔτε εἰς κοπρίαν εἰσθεόν εἰστιν.

(d) Καὶ δέ μὲν τοῦ ἀνθρώπου πορεύεται κατὰ τὸ ὠρισμένον· πλὴν οὐαὶ τῷ ἀνθρωπῷ ἕκεινῷ δι' οὐ παραδίδοται. καὶ αὐτοὶ ἡρξαντο συζητεῖν πρὸς ἑαυτούς τὸ, τις ἄρα εἴη ἐξ αἰτῶν ὁ τοῦτο μέλλων πράσσειν.

2. Decline in the singular—μῆτρα, μαστίλεις, ἄρος, πόλεις, and in the plural—ἀγριμάν, ἀστοῖν, μέρας, χαρίεις, giving all the genders of the adjectives.

3. Parse, giving the first person singular of the present, future and aorist—διέβησαν, ἀφίκοντο, ἐώρων, ἡσαν, σινειλεγμένοι, διαφθαρῆναι, ἥσθετο.

4. Give the Greek for—

(a) My father came (*ἔρχομαι*) to see (*όράω*) the battle.

(b) At Athens no one thought (*νομίσω*) that he was wiser than his father.

(c) On the third day the soldiers came to a broad and deep river and remained there three days.

(d) If you had read (*άναγνωσκω*) that book (*βιβλιον*) you would not have said this.

5. Translate into English—

Ἐπειδὴ δὲ ἡσεὶ γῆνετο, ἐν βαίνον τὴν γέφυραν ἵξεινην πλοίοις τριάκοντα καὶ ἐπτά, ὡς οὖν τε μαλστα πέφιλαγχεῖς· ἐπηγγελλον γάρ τινες τῶν παρὰ Τισσαφέρους Ἑλλήνων, ὡς διαβαίνοντα μέλλοντα ἐπιστήσονται. ἀλλὰ ταῖς μὲν φυῖδη δην· διαβαίνοντα μέντοι δὲ Γλοῦς αἰτοῖς ἐπεφάγη μετ' ἄλλων, σκοπῶν εἰς διαβαίνοντα τὸν ποταμὸν· ἐπειδὴ δὲ εἶδεν, φέχετο ἀπελαύνων.

25th March, 1892.

## 1. Translate—

(a) Ιδὼν δὲ αὐτοὺς διαβαίνοντας ὁ Ξενοφῶν πέμψας ἄγγελον κελεύει αὐτῷ μεῖναι ἐπὶ τοῦ ποταμοῦ μὴ διαβάντας· ὅταν δὲ ἀρξωνται αὐτὸλ διαβαίνειν, ἔναντίους ἔνθεν καὶ ἔνθεν σφῶν ἐμβαίνειν ὡς διαβησομένους, δηγκιλωμένους τοὺς ἀκοντιστὰς καὶ ἐπιβεβλημένους τοὺς τοξότας, μὴ πρόσω δὲ τοῦ ποταμοῦ προβαίνειν.

(b) Οὗτοι ἦσαν ὡς διῆλθον ἀλκιμώτατοι, καὶ εἰς χεῖρας ἤεσαν. Εἶχον δὲ θώρακας λινούς μέχρι τοῦ ἥτρου, ἀντὶ δὲ τῶν πτερύγων σπάρτα πυκνὰ ἐστραμμένα. Εἶχον δὲ καὶ κυνηγίδας καὶ κράνη καὶ παρὰ τὴν ζώνην μαχαίριον ὅσον ξινήλην λακωνικήν, φέρσαφτον ὡς κρατεῖν δύναντο.

(c) Εἶπε δὲ πρὸς τοὺς μαθητὰς· Ἀνένδεκτόν ἔστι τοῦ μὴ ἐλθεῖν τὰ σκάνδαλα· οὐαὶ δὲ, δι’ οὐ ἔρχεται. Λυσιτελεῖ αὐτῷ, εἰ μίλος ὄνκος περίκειται περὶ τὸν τράχηλον αὐτοῦ, καὶ ἔρριπται εἰς τὴν θάλασσαν, ἢ ἵνα σκανδαλίσῃ ἔνα τῶν μικρῶν τοίτων. Προσέχετε ἑαυτοῖς. Ἐὰν δὲ ἀμάρτη γε εἰς σὲ ὁ ἀδελφός σου, ἐπιτίμησον αὐτῷ καὶ ἔὰν μετανοήσῃ, ἀφες αὐτῷ.

(d) Γίνεσθε οὖν οἰκτίρμονες, καθὼς καὶ ὁ πατὴρ ὑμῶν οἰκτίρμων ἔστι. Καὶ μὴ κρίνετε, καὶ οὐ μὴ κριθῆτε· μὴ καταδικάζετε, καὶ οὐ μὴ καταδικασθῆτε· ἀπολύτετε, καὶ ἀπολυθήσεσθε. Δίδοτε, καὶ δοθῆσεται ὑμῖν· μέτρον καλὸν, πεπιεσμένον καὶ σεσαλευμένον καὶ ὑπερεκχιωμόμενον δώσουσιν εἰς τὸν κόλπον ὑμῶν.

2. Parse, giving principal parts—ἐπώλουν, ἄφετε, παραλαβών, κατέβη, γῆδεις, δοῦναι, κτήσεσθε, ἔγητήσατο.

3. Decline in the singular—μία μεγάλη πόλις, ἀσθενής γυνή; and in the plural—τοῦτο γένος, μέλαν δοστοῦν.

4. Go through (a) the pluperf. indic. act. and first aor. indic. mid. of λύω, (b) the pres. optat. act. of τιμάω, and the pres. sub. pass. of δουλώω, (c) the pres. imper. act. of δίδωμι and εἰμι.

## 5. Give the Greek for—

(1) My horses (*ἱππος*) are swifter (*ταχύς*) than yours.

(2) In winter the days (*ἡμέρα*) are short (*βραχύς*) and the nights are long.

(3) The Athenians thought (*νομίζω*) that Socrates was corrupting (διαφθείρω) the youth.

## 6. Translate—

Μετὰ ταῦτα ἀριστήσαντες καὶ διαβάντες τὸν Ζαπάταν ποταμὸν ἐπορεύοντο τεταγμένοι, τὰ ὑποσίγια καὶ τὸν ὄχλον ἐν μέσῳ ἔχοντες. Οὐ πολὺ δὲ προεληλυθότων αὐτῶν, ἐπιφαίνεται πάλιν ὁ Μιθριδάτης, ἵππεας ἔχων ὡς διακοσίους καὶ τοξότας καὶ σφενδονήτας εἰς τετρακοσίους μάλα ἐλαφροὺς καὶ εὐζώνους. Καὶ προσήγει μὲν ὡς φίλος ὧν πρὸς τοὺς Ἑλληνας, ἐπεὶ δὲ ἔγγυς ἐγένοντο, ἐξαπίνης οἱ μὲν αὐτῶν ἐτόξευον καὶ ἵππεῖς καὶ πεζοὶ, οἱ δὲ ἐσφενδόνων καὶ ἐτίτρωσκον.

## FRENCH.—Two hours.

1st October, 1891.

## 1. Translate—

(a) La reine alors, sur lui jetant un œil farouche,  
Pour blasphémer sans doute ouvrirait déjà la bouche ;  
J'ignore si de Dieu l'ange se dévoilant  
Est venu lui montrer un glaive étincelant ;

Mais sa langue en sa bouche à l'instant s'est glacée,  
 Et toute son audace a paru terrassée ;  
 Ses yeux, comme effrayés, n'osaien se détourner ;  
 Sur-tout Éliacin paraissait l'étonner.

- (b) Jerusalem renaît plus charmante et plus belle ;  
 D'où lui viennent de tous côtés  
 Ces enfants qu'en son sein elle n'a point portés ?  
 Lève, Jerusalem, lève ta tête altière ;  
 Regarde tous ces rois de ta gloire étonnés ;  
 Les rois des nations, devant toi prosternés,  
 De tes pieds baissent la poussière ;  
 Heureux qui pour Sion d'une sainte ferveur  
 Sentira son âme embrassée !  
 Cieux, répandez votre rosée,  
 Et que la terre enfante son sauveur !

2. Give the plurals of *nez*, *genou*, *général*, *travail*, *gendarme* ; and the feminine of *faux*, *neuf*, *secret*, *sot*, *long*.

3. Parse, conjugate, and give the first person singular past indicative and present subjunctive of *current*, *mou*, *tenions*, *ra*, *pourrons*, *dîmes*, *finirai*, *fasse*.

4. Give the French for —(1) What o'clock is it? It is half-past-five. (2) When did your father die? He died on the 23rd of June, 1880. (3) What sort of a day is it? It is very cold. (4) He has given them some bread. Do not give us any. (5) You must go to London on Tuesday. Your father has just set out from Paris. (6) The man of whom we were speaking has neither father nor mother.

5. Translate into English—

Allons! ne pleurez pas! Voyons! On vous défend  
 D'être si malheureux. Vous êtes un enfant.  
 Vous me serez un frère; est-ce pas quelque chose  
 Qu'une gentille sœur avec laquelle on cause,  
 Qui vous ouvre son âme, entre dans vos secrets,  
 Et vous grond' d'abord pour vous sourire après?  
 Si, m'étant enchainée avant de vous connaître,  
 De se donner à vous mon cœur n'est plus le maître,  
 Tout autre sentiment doit-il s'évanouir?

24th March, 1892.

1. Translate :—

- (1) Je ne m'explique point : mais quand l'astre du jour  
 Aura sur l'horizon fait le tiers de son tour,  
 Lorsque la troisième heure aux prières rappelle,  
 Retrouvez-vous au temple avec ce même zèle.  
 Dieu pourra vous montrer par d'importants bienfaits  
 Que sa parole est stable, et ne trompe jamais.  
 Allez : pour ce grand jour il faut que je m'apprête,  
 Et du temple déjà l'aube blanchit le faite.

- (2) O mon fils, de ce nom j'ose encor vous nommer,  
Souffrez cette tendresse, et pardonnez aux larmes  
Que m'arrachent pour vous de trop justes alarmes ;  
Loin du trône nourri, de ce fatal honneur,  
Hélas ! vous ignorez le charme empoisonneur ;  
De l'absolu pouvoir vous ignorez l'ivresse,  
Et des lâches flatteurs la voix enchanteresse.  
Bientôt ils vous diront que les plus saintes lois,  
Maitresses du vil peuple, obéissent aux rois ;  
Qu'un roi n'a d'autre frein que sa volonté même ;  
Qu'il doit immoler tout à sa grandeur suprême ;  
Qu'aux larmes, au travail, le peuple est condamné,  
Et d'un sceptre de fer veut être gouverné.

2. Give the plurals of *corail*, *éventail*, *hibou*, *tapis*: and the feminine of *naïf*, *gentil*, *fier*, *duc*, *gouverneur*, *empereur*.

3. Write out the preterite of *mettre* and of *courir*; and the imperf. subj. of *faire* and *dire*. Conjugate *offrir*, *rirre*, *apprendre*, *peindre*, *pouvoir*, *nuire*.

4. Give the French for (a) half an hour; (b) a pound and a half; (c) he goes barefooted; (d) his feet are bare; (e) I have amused myself.

**5. Translate into French:—**

- (1) I am sorry you have come so late.  
(2) We do not know what he is going to do.  
(3) Can you swim (*nager*)?  
(4) She will come to see me on Tuesday morning.  
(5) He must set out early for the station (*gare*, f.); the train leaves at half-past six to-morrow morning.

**6. Translate :—**

Vous voyez devant vous un prince déplorable,  
D'un téméraire orgueil exemple mémorable :  
Moi qui, contre l'amour fièrement révolté,  
Aux fers de ses captifs ai long-temps insulté ;  
Qui, des faibles mortels déplorant les naufrages,  
Pensois toujours du bord contempler les orages ;  
Asservi maintenant sous la commune loi,  
Par quel trouble me vois-je emporté loin de moi !

**GERMAN—*Two hours.***

3rd October, 1891.

**1. Translate :—**

- (a) Denn der Thron  
Der Könige, der von Golde schimmert, ist  
Das Obdach der Verlassenen—hier steht  
Die Macht und die Barmherzigkeit—es zittert  
Der Schuldige, vertrauend naht sich der Gerechte  
Und scherzt mit den Löwen um den Thron !  
Der fremde König, der von aussen kommt,

Dem keines Ahnherrn heilige Gebeine  
 In diesem Lande ruhn, kann er es lieben?  
 Der nicht jung war mit unsren Junglingen,  
 Dem unsre Worte nicht zum Herzen tonen,  
 Kann er ein Vater sein zu seinen Söhnen?

(b)

Wer wird

In seinem Winkel mussig sitzen, wenn  
 Das Grosse sich begibt im Vaterland!  
 Es hat auch Schweiß und Blut genug gekostet,  
 Bis dass die Krone kam aufs rechte Haupt!  
 Und unser König, der der wahre ist,  
 Dem wir die Kron' jetzt geben, soll nicht schlechter  
 Begleitet sein, als der Pariser ihrer,  
 Den sie zu Saint Denis gekront! Der ist  
 Kein Wohlgesinnter, der von diesem Fest  
 Wegbleibt und nicht mitruft: Es lebe der König!

2. Decline in the singular *der Baum, die Mutter*: and in the plural *der Prinz, die Schlacht, das Thier*. Compare *froh, kurz, dunkel, hoch*.  
 3. Go through the present indicative of *schen, sprechen, lassen*. Conjugate *schlagen, fangen, gliichen, brechen, bitten*.

4. Give the German for—(1) Whose book are you reading? (2) The train (*Zug*) leaves (*abfahren*) at half-past six in the evening. (3) We are going away (*fortgehen*) on Wednesday next. (4) He fought his way (*sich schlagen*) cheerfully and courageously through life, attained (*erreichen*) a great age, and died (*sterben*) a peaceful and painless death.

5. Translate:

Ihr habt an mir gehandelt, wie nicht recht ist,  
 Denn ich bin eine Königin, wie ihr,  
 Und ihr habt als Gefangne mich gehalten.  
 Ich kam zu euch als eine Bittende,  
 Und ihr, des Gastrechts heilige Gesetze,  
 Der Völker heilig Recht in mir verhöhrend,  
 Schlosst mich in Kerkermauern ein; die Freunde  
 Die Diener werden grausam mir entrissen,  
 Untwürd'gem Mangel werd' ich preisgegeben,  
 Man stellt mich vor ein schimpfliches Gericht—  
 Nichts mehr davon! Ein ewiges Vergessen  
 Bedecke, was ich Grausames erlitt.

26th March, 1892.

1. Translate:

Verblendet ist das Volk, ein Wahns betäubt es,  
 Doch dieser Taumel wird vorübergehn;  
 Erwachen wird, nicht fern mehr ist der Tag,  
 Die Liebe zu dem angestammten König,  
 Die tief gepflanzt ist in des Franken Brust,  
 Der alte Hass, die Eifersucht erwachen,  
 Die beide Völker ewig feindlich trennt;  
 Den stolzen Sieger stürzt sein eignes Glück.

Wer rief euch in das fremde Land, den blühnden Fleiss  
 Der Felder zu verwissen, von dem heim'schen Herd  
 Uns zu verjagen und des Krieges Feuerbrand  
 Zu werfen in der Städte friedlich Heilgthum ?  
 Ihr traumtet schon in eures Herzens eiteln Wahn,  
 Den freigebornen Franken in der Knechtschaft Schmach  
 Zu stürzen und dies grosse Land, gleichwie ein Boot,  
 An euer stolzes Meerschiff zu befestigen !  
 Ihr Thoren ! Frankreichs königliches Wappen hängt  
 Am Throne Gottes. Eher riss't ihr einen Stern  
 Vom Himmelwagen, als ein Dorf aus diesem Reich,  
 Dem unzertrennlich ewig einigen !

2. Decline in the singular and plural—*Strahl, welcher Mann, der breite Fuss, der höhere Baum.*

3. Write out the imperf. indic. of *dürfen* and *mögen*, and the pres. indic. of *wollen* and *können*. Conjugate *kennen, kneifen, geiszen, erbleichen, braten, besitzen*.

4. Distinguish between—*der Thor, das Thor; der Verdienst, das Verdienst; der Heide, die Heide; der Bauer, das Bauer.*

5. Give the German for—

- (1) Where do you get your books bound ?
- (2) You ought to have written your exercise (*Aufgabe, f.*).
- (3) The day before yesterday.
- (4) What are you looking for ?
- (5) Tell the servant to go to the grocer's and buy three pounds of cheese and a bottle of white wine.

6. Translate—

Fern sei vom Kaiser die Tyrannenweise !  
 Den Willen nicht, die That nur will er strafen.  
 Noch hat der Fürst sein Schicksal in der Hand—  
 Er lasse das Verbrechen unvollführt,  
 So wird man ihn still vom Kommando nehmen,  
 Er wird dem Sohne seines Kaisers weichen.  
 Ein ehrenvoll Exil auf seine Schlösser  
 Wird Wohlthat mehr, als Strafe für ihn sein.  
 Jedoch der erste offbare Schritt—.

### HIGHER MATHEMATICS.—*Two hours.*

*3rd October, 1891.*

1. Describe an isosceles triangle which shall have each of the angles at the base double of the angle at the vertex.

2. If the sides of two triangles, taken in order about each of their angles, be proportional, the triangles shall be equiangular to one another, having those angles equal which are opposite to homologous sides.

3. If four straight lines be proportional, and a pair of similar rectilineal figures be similarly described on the first and second and also a pair on the third and fourth, these figures shall be proportional.

4. Find the highest common factor of

$$2x^6 - 11x^2 - 9 \text{ and } 4x^5 + 11x^4 + 81.$$

5. Simplify
- $$\frac{\frac{a-b}{1+ab} + \frac{b-c}{1+bc}}{1 - \frac{(a-b)(b-c)}{(1+ab)(1+bc)}}.$$

6. Solve the equations :—

$$(i.) \quad \frac{3x^3 + 3x^2 + 2x + 6}{3x^2 + 3x + 24} = \frac{x^2 + x - 4}{x + 1},$$

$$(ii.) \quad \frac{(x+a)(x+b)}{(x+4a)(x+4b)} = \frac{(x-a)(x-b)}{(x-4a)(x-4b)}.$$

7. Solve the simultaneous equations :—

$$x^2 - xy + x = -12, \quad y^2 - xy - y = 18.$$

8. Define the tangent and cosecant of an angle, and prove that

$$\tan^2 A \operatorname{cosec} A + 1 + \operatorname{cosec}^2 A \frac{\cos A - 1}{1 + \cos A} = 0.$$

9. Prove that  $\cos(A - B) = \cos A \cos B + \sin A \sin B$ , all the angles being less than  $90^\circ$ .

Prove also that  $\cot \frac{A}{2} - 2 \cos^2 \frac{A}{2} \cot A = \sin A$ .

10. In any triangle prove

$$(i.) \quad \cos A = \frac{b^2 + c^2 - a^2}{2bc}, \quad (ii.) \quad \cos \frac{A}{2} = \sqrt{\frac{s(s-a)}{bc}}.$$

Find the greatest angle of the triangle whose sides are 25, 32, 33, having given

$$\log 2 = .3010300, \quad \log 3 = .4771213.$$

$$\log \cos 34^\circ 45' = 9.9146852, \quad \log \cos 34^\circ 46' = 9.9145976.$$

26th March, 1892.

1. If a straight line be divided into any two parts, the squares on the whole line and on one of the parts are together equal to twice the rectangle contained by the whole line and that part together with the square on the other part.

2. Construct a rectilineal figure which shall be equal to one and similar to another given rectilineal figure.

3. The rectangle contained by the diagonals of a quadrilateral inscribed in a circle is equal to the sum of the rectangles contained by its opposite sides.

4. Find the factors of

$$(i.) \quad x^6 - 5x^4y - 24xy^2;$$

$$(ii.) \quad (x + \frac{1}{2}y - \frac{1}{2})^2 - 4(x - \frac{1}{2}y + \frac{1}{2})^2;$$

$$(iii.) \quad (y - z)^2 + (z - x)^2 + (x - y)^2.$$

5. Find the value of  $\frac{x+2a}{2b-x} \cdot \frac{x-2a}{2b+x} + \frac{4ab}{x^2-4b^2}$  when  $x = \frac{ab}{a-b}$ .

6. Solve the equations :—

$$(i.) \frac{20}{x+10} + \frac{5}{x+15} = \frac{10}{x+20} + \frac{15}{x+5};$$

$$(ii.) 3x^2 - xy + 3y^2 = 33, \quad 8x^2 + 3xy + 8y^2 = 71.$$

7. Define a logarithm, and show that the logarithm of the product of two numbers is equal to the sum of the logarithms of the numbers.

Given  $\log 2 = .3010$ ,  $\log 3 = .4771$ , find the logarithm of  $\sqrt[3]{20.25}$ .

8. Define the "tangent" and the "secant" of an angle and show how to express the tangent in terms of the secant.

Solve the equation  $3 \tan^2 \theta - 7 \sec \theta + 5 = 0$ .

9. In the usual notation for the sides and angle of a triangle show that

$$\tan \frac{1}{2}A = \sqrt{\frac{(s-b)(s-c)}{s(s-a)}}.$$

If  $a = 5102$ ,  $b = 3074$ ,  $c = 2314$ , find the angle  $A$ , being given

$$\log 5.245 = .7197 \quad \log 2.171 = .3367$$

$$\log 2.931 = .4670 \quad \log 1.430 = .1553$$

$$L \tan 71^\circ 3' = 10.4644.$$


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## NATURAL PHILOSOPHY.—*Two hours.*

*3rd October, 1891.*

1. What is meant by a "wave of sound"? Explain the terms "wave-length," "velocity of a wave," "period of vibration." Denoting the wave-length by  $\lambda$ , the velocity by  $v$ , and the period by  $T$ , write down the equation connecting  $\lambda$ ,  $v$ , and  $T$ .

2. State the laws which govern the number of vibrations executed per second by a stretched string sounding its fundamental note.

A steel wire, 1 yard long, and stretched by a weight of 5 lbs., vibrates 100 times per second when plucked. If I wish to make 2 yards of the same wire vibrate twice as fast, with what weight must I stretch it?

3. Describe the state of disturbance of the air in a pipe closed at one end when it resounds to a tuning fork which is held over it. State the relation between the length of the pipe, the pitch of the note, and the velocity of sound in air.

4. A glass rod, 5 feet long, is clamped at its centre and rubbed longitudinally with a wet cloth. State how it vibrates when thus treated, and calculate the velocity of sound in the glass when the rod makes 1295 complete vibrations in every second.

5. What is meant by saying that the co-efficient of expansion of steel is 0.000012? If the highest summer temperature be  $40^\circ\text{C}.$ , and the lowest winter temperature  $-20^\circ\text{C}.$ , what allowance should be made for expansion in one of the 1700 feet spans of the Forth Bridge?

6. What is meant by a "unit of heat"? Taking the specific heat of lead as 0.031, and its latent heat as 5.07, find the amount of heat necessary to raise 15 lbs. of lead from a temperature of  $115^\circ\text{C}.$  to its melting-point,  $325^\circ\text{C}.$ , and to melt it.

7. Distinguish between conduction, convection, and radiation of heat. Explain the use of the wire gauze surrounding the flame in the Davy lamp used in coal mines.

26th March, 1892.

- What is meant by saying that the co-efficient of expansion of iron is .000012? An iron yard-measure is correct at the temperature of melting ice: express as a fraction of an inch its error at 50° C.

- State the laws of Boyle and of Charles connecting the pressure, volume, and temperature of a gas.

A closed glass tube filled with air at 0° C. and under atmospheric pressure is gradually heated. If the tube can safely stand a pressure of 3 atmospheres, to what temperature may it be heated?

- What is meant by the statement "the latent heat of water is 80"? Explain any method of determining this latent heat.

What will be the result of mixing 40 lbs. of water at 75° C. with 30 lbs. of ice.

- What is meant by "the dew-point"? Explain the circumstances that help or hinder the formation of dew.

- Give some account of the nature of a wave of sound, and explain the terms "wave-length," "period of vibration," "velocity of the wave."

Taking the velocity of sound as 1128 feet per second, find the wavelength, if the period of vibration is  $\frac{1}{74}$ th of a second.

- In what respects may musical sounds differ, and on what physical properties do the differences depend?

- Describe the state of disturbance of the air in a pipe closed at one end when it resounds to a tuning-fork which is held over it. If the sound waves produced be 12 feet long, find the length of the pipe.
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### LOGIC.—Two hours.

2nd October, 1891.

- Distinguish between Form and Matter, and between a Law of Nature and a Law of Thought.

- What is meant by the *conversion* of a proposition? State and illustrate the rules of valid conversion.

- Explain the following: *Nominalism, connotation, intension, intuitional knowledge, empirical law.*

- Construct two valid syllogisms in each of these moods: EAE, AAI, IAI. What is an enthymeme?

- Define exactly: *Petitio principii, ignoratio scientiæ, non causa pro causa, non sequitur, fallacy of composition.* Give an example of the first.

- What is meant by the Quantification of the Predicate?

- Discuss the validity of the following arguments:—

(a) Years bring wisdom, but you are still young and therefore unwise.

(b) No man desires pain, but without pain your friend's cure is impossible, therefore he will not desire to be cured.

(c) Peace invariably follows war, England therefore should make war that she may have peace.

(d) He confesses the crime, therefore he is the guilty man.

*March, 1892.*

1. State and briefly discuss the various definitions of Logic. What is meant by calling it the Science of Sciences?
  2. State briefly the point at issue between Nominalists, Conceptualists, and Realists.
  3. Name the various kinds of Conversion, and state the rules of valid Conversion.
  4. Define Syllogism. Construct a valid Syllogism in each of these moods:—Festino, Darapti, Ferison, Camenes, Fesapo.
  5. What is Induction? Describe briefly the methods of Induction, as stated in Mr. Mill's first three canons.
  6. Distinguish between Logical and Material Fallacies, and name the principal Material Fallacies.
  7. Explain the meaning of the following:—Syncategorematic words, connotation, subalterns, fundamentum divisionis, enthymeme, sorites.
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### MORAL PHILOSOPHY.—*Two hours.*

*2nd October, 1891.*

1. State generally what is meant by the Evolution Hypothesis. How does Mr. Spencer apply it to the Consideration of Conduct?
  2. "Intellectual progress is by no one trait so adequately characterised as by development of the idea of causation." Explain and illustrate this statement.
  3. What is Mr. Spencer's view of the origin of Asceticism?
  4. Indicate the analogy between the *physiological* and the *sociological* division of labour. What is the universal basis of co-operation?
  5. Criticise, from Mr. Spencer's standpoint, Virtue as a moral end.
  6. "Justice is higher generosity." What does Mr. Spencer mean by this? Notice the chief aspects of the process of differentiation of the moral control.
  7. How does Mr. Spencer show that the antagonism between altruism and egoism is not permanent? What is the ultimate form of altruism?
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*25th March, 1892.*

1. Define "Conduct in General." How is it related to the science of Ethics?
2. Briefly state Mr. Spencer's theory of the "Evolution of Conduct."
3. How does Mr. Spencer account for the existence of a feeling of Moral Obligation?
4. Distinguish between Happiness and Pleasure. Can either of them be regarded as the end of action? Give reasons for your answer.
5. Define Egoism and Altruism. Is either theory, taken by itself, sufficient as a principle of conduct?
6. How does Mr. Spencer define Pain and Pleasure? What is meant by the Relativity of Pain and Pleasure?
7. What is the importance of Freedom to Morality? What is Mr. Spencer's view of human freedom?

## II.—PROFESSIONAL EXAMINATIONS.

## I.—FIRST PROFESSIONAL EXAMINATION.

## CHEMISTRY.—One hour and a half.

6th October, 1891.

1. You are provided with caustic potash, saltpetre, manganese dioxide, water, and sulphuric acid. What substances could you make from these materials?

2. Calculate the weight of zinc and hydrochloric acid respectively which would be required to produce hydrogen to inflate a balloon of 1000 cubic metres capacity at a temperature of  $15^{\circ}$  C. and pressure of 760 mm. What would be the bulk of the gas when the barometer had fallen to 730 mm. and the temperature was  $-6^{\circ}$  C?

3. Upon what principle are  $H_2O$ ,  $Ag_2O$ ,  $Si_2O$ , etc., called protoxides, and  $Cu_2O$ ,  $Hg_2O$  suboxides?

4. Alkaline permanganates and chromates, carbolic acid, arsenious acid, corrosive sublimate are employed as disinfectants and antiseptics. Explain their respective chemical actions when so acting.

5. What relation exists between starch, sugar, and alcohol? Can any of them be converted into other, and if so, by what process?

## BOTANY.—One hour and a half.

31st March, 1891.

1. Describe briefly the arrangement, connections, and function of the vascular system in a typical Dicotyledon.

2. Explain the mode of nutrition of a green plant, and state the conditions under which it may proceed; contrast it with that of an animal.

3. Give a short account of the developments which follow pollination in an Angiosperm.

4. Describe the appearance and effects of the potato disease. Give a short description of the Fungus *Phytophthora infestans* which causes it, and explain what conditions will lead to its spread.

5. Give a short account of vegetative propagation in Cryptogams.

Only four questions to be attempted.

5th October, 1891.

1. Explain briefly the biological significance of fleshy fruits. Give a detailed description (with names) of the fruit of the Vine, the Gooseberry, the Cherry, and the Rose, showing how they differ.

2. Write a short essay on the movements of water in terrestrial plants during the day time.

3. Describe the salient characters of the Cruciferae : draw the typical floral diagram of the family and explain it.

4. If a slice of bread be kept under a bell glass, what kind of growth will appear on it ? Explain (1) how it gains access to the bread, and (2) how the bread might be kept unaltered for an indefinite time.

5. Discuss the value of fresh lettuce and of fresh cabbage as food for man : compare them with cooked beetroot and with boiled potatoes.

*Only four questions to be attempted by M.B. Candidates.*

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## NATURAL HISTORY.

*29th March, 1891.*

1. Describe the respiratory arrangements of Insects, adult and larval.
  2. Wherein do the colonial forms of Hydrozoa and Polyzoa differ ?
  3. Describe the structure of a Star-fish (*Asterias*) : wherein does it differ from that of an Ophiurid ?
  4. Give an account of the dentition of Whalebone Whale, Dog, and Man.
  5. Describe the modifications of the anterior pair of limbs in Birds, Bats, Cetacea.
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*5th October, 1891.*

1. Illustrate by such an animal as Amœba how simple structures may coexist with complex physiological functions.
2. Describe various modes of reproduction among the Protozoa, especially those that approach nearest to sexual reproduction.
3. Describe the mouth appendages and the alimentary canal of a typical insect, e.g., Cockroach. How are the mouth parts of a Bee and a Butterfly modified in comparison with such a type ?
4. In what characters do Birds and Reptiles show evidences of close affinity to each other ?
5. Give an account of the anatomy of Amphioxus, emphasizing its more remarkable features.
6. Draw diagrams of the following parts of a Frog :—Shoulder girdle, pelvis, brain, heart, urogenital system.
7. Give an account of the structure of a Cuttle fish, and describe briefly a few remarkable members of the same group.
8. Give the geographical distribution of the following :—Nautilus, Limulus, Ceratodus, Struthio, Aptynx, Manatus, Tapirus, Lemur.

*M.B. Candidates are expected to take FIVE questions only.*

***II. SECOND PROFESSIONAL EXAMINATION.*****DESCRIPTIVE ANATOMY.***1st April, 1891.*

1. Describe the plantar aponeurosis and the superficial layer of muscles of the sole.
  2. Describe the appearance, distribution, and structure of the villi of the intestine.
  3. Describe the two auriculo-ventricular valves of the heart.
  4. Describe the fornix and its relations.
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*6th October, 1891.*

1. Describe the temporo-maxillary articulation and the movements of the jaw; also, the external pterygoid muscle and its actions.
  2. Describe the microscopic structure of a salivary gland.
  3. Describe the optic commissure and tracts, and their connections with other parts of the brain.
  4. Describe shortly the mode of development of the digestive tube.
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**INSTITUTES OF MEDICINE OR PHYSIOLOGY.—***Two hours.**1st April, 1891.*

1. Give an account of what is known regarding the innervation of the sub-maxillary gland, and state also the views presently held by physiologists regarding the mechanism of secretion.
  2. What is understood by the "Pulse Wave"? State its speed, and contrast this with the velocity of the Blood. Show how Pulse Waves may be affected as regards (*a*) number, (*b*) character, and (*c*) amplitude. Why is there no Pulse Wave in the capillaries?
  3. What would be the general physiological effects of section (or destruction) of the following parts of the central nervous organs?
    - a.* Middle portion of internal capsule on right side.
    - b.* Spinal cord immediately below 5th cervical.
    - c.* Posterior column and grey matter of cord on right side in lower part of dorsal region.
- Explain why the effects would probably be such as you describe.
4. What are the chief chemical characteristics of urea and uric acid? State how and where they are formed and how they leave the body.
  5. What differences are there in the blood in the right and left ventricles? State how these differences are produced.

*Only four questions to be attempted. All of the same value.*

*6th October, 1891.*

1. Give an account of how a nerve fibre terminates in (a) striated muscle; (b) non-striated muscle; and (c) skin or mucous membrane. By what histological methods could you demonstrate the appearances you describe?

2. In what form and by what channels does nitrogen leave the body?

3. What is the mean temperature of the healthy human body? Explain how it is maintained nearly constant, and how the thermal arrangements may be modified by (a) exposure to cold; (b) exposure to great heat; (c) diet; (d) muscular action; and (e) vaso-motor influences?

4. The liver is a blood disintegrating gland. What is the fate of the colouring matter and of the other constituents of the blood corpuscles that have been destroyed therein?

5. What do you understand by blood pressure? How is it maintained, and what purpose does it serve? How is blood pressure recorded? Illustrate the latter point by a drawing of a blood pressure tracing, with any explanatory remarks you consider necessary.

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### III.—THIRD PROFESSIONAL EXAMINATION.

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#### REGIONAL ANATOMY.

*2nd April, 1891.*

1. Describe the relations of the pancreas to the peritoneum, blood-vessels, and viscera.

2. Describe the ulnar and radial arteries in the forearm, with their relations.

3. Describe the relations of the lachrymal sac, and also those of the lachrymal gland.

*7th October, 1891.*

1. Describe the relations of the thyroid body to other structures, and also describe its arteries and veins.

2. State the parts divided in removing the whole sternum with the attached costal cartilages, and describe the disposition of parts laid bare.

3. Describe the nerves to the scrotum, and the dispositions of parts which determine the course of urine extravasated from the spongy part of the urethra.

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#### MATERIA MEDICA AND THERAPEUTICS.

*One hour and a half.*

*2nd April, 1891.*

1. Describe briefly the physical and chemical characters of permanganate of potassium. What are its therapeutic applications and doses? How would you prescribe it?

2. In what forms is sulphur official? Give its doses and preparations. Describe and explain its therapeutical applications.

3. Mention the preparations and doses of belladonna (*a*) from the leaves, (*b*) from the root. Describe its principal uses in the treatment of disease.

4. Name the extracts of the B.P. which have a smaller dose than two grains. Write out a prescription for oxide of silver, iron and digitalis, mercury and iodide of potassium, oil of male fern. Make comments on the following prescriptions:-

R Potass. chlorat.,	3 <i>ii.</i>	R Liq. hydrarg. perchlor.,	3 <i>ii.</i>
Liq. ferri dialys.,	3 <i>ii.</i>	Liq. strychninae hydroch.,	3 <i>ip.</i>
Syr. Limonis,	3 <i>p.</i>	Aquae ad,	3 <i>ii.</i>
Aquae ad,	3 <i>vi.</i>		
M.			M.
S. -A teaspoonful thrice daily.		S. -One teaspoonful thrice daily.	

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October, 1891.

1. Enumerate the more important pharmacopæcial liquid extracts, and give their doses.

2. Name the official preparations of lead. Give an account of their therapeutical uses, and state the treatment to be adopted in lead paralysis.

3. Give an account of the physiological actions and therapeutical uses of phenazonum (antipyrin).

4. Give a detailed account of the best methods of treating scabies and favus. Write prescriptions for both diseases.

#### IV.—FINAL PROFESSIONAL EXAMINATION.

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##### SURGERY.—*Two hours.*

13<sup>th</sup> July, 1891.

1. What are the causes and treatment of nocturnal incontinence of urine in children?

2. Describe in minute detail the proceedings you would adopt in dealing with a compound comminuted fracture of both bones of the leg, *profundus* two hours previously by indirect violence, and give *in full* your reasons for each step.

3. Differentiate a syphilitic enlargement of the testicle from the other affections with which it may be confounded.

4. Describe the various kinds of ophthalmia (conjunctivitis) and the treatment you would adopt in each form.

(Three questions at least to be answered.)

PRACTICE OF MEDICINE.—*Two hours.**14th July, 1891.*

1. Describe the aetiology, symptoms, physical signs, and possible terminations of pneumothorax.
2. State what changes as regards function and structure may be expected to follow chronic cirrhosis of the kidney, and discuss the relation of these to the renal condition.
3. Mention the causes, symptoms, and treatment of dilatation of the stomach in the adult.
4. A. B., aet. 26 (a male), was admitted to the Western Infirmary, several years ago, in a state more or less approximately comatose, no information as to his previous history or symptoms being at first attainable. There was no paralysis. The urine, which was procured with difficulty, being very scanty and almost wanting at first, was non-albuminous, and of high specific gravity. Certain changes were detected in both lungs by the stethoscope; but no pulmonary symptoms were known to exist at this time. At a later period a history of chronic cough was obtained from his wife, and also of pain in the head and vomiting: otherwise, no cerebral disorders of any kind had been observed up to the date of admission. The patient in a few days died comatose. A post-mortem examination was obtained.

Comment upon the course of this case, as observed; the doubts reasonably entertained of its nature when first seen, and the probable diagnosis as resulting from the facts stated. Indicate any additional data which would have been requisite, had medical observation extended over the whole period of illness, in order to make the diagnosis more precise. Keeping in view the diagnosis adopted, what would have been the post-mortem appearances?

*N.B.*—The prescriptions in answer to Question 3, and also prescriptions in a supposed case of facial neuralgia (*tic douloureux*) to be written out with directions for use, as to be made up by a chemist.

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MIDWIFERY AND GYNAECOLOGY.—*One hour and a half.**15th July, 1891.*

1. Enumerate the hemorrhages which may occur in obstetric practice, and state how you would treat a case of lateral placenta praevia.
2. Give the causes, diagnosis, and treatment of prolapse of the cord during labour.
3. What methods of treatment are open to us in a case of long-standing prolapsus uteri, with external protrusion.
4. Give a statement of the dangers which may arise in the hand-feeding of infants, and state fully how these dangers may best be avoided.

FORENSIC MEDICINE.—*Two hours.*

13th July, 1891.

1. How might the examination of a dead body warrant a diagnosis of death from homicidal strangulation, and subsequent suspension of the body to give rise to the idea of suicide?

2. Discuss the circumstances which would hasten or retard the putrefaction of a dead body :

(α) in air,

(β) in water,

and in each case state, in chronological order, the parts of the body showing signs of this change.

3. Drowning :

(α) What are the most reliable signs of death from drowning?

(β) What points would guide your decision as to accident, suicide, or homicide?

(γ) How would you treat a case of apparent death from drowning?

4. How would you investigate stains suspected to be due to blood?

5. What general principles would guide you in the treatment of cases of poisoning? Give in detail the treatment you would adopt in the cases, respectively, of poisoning by

(α) Opium,

(β) Oxalic acid,

(γ) Strychnine.

State how the presence of oxalic acid in vomited matter may be demonstrated.

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PATHOLOGY. *One hour and a half.*

14th July, 1891.

1. A shrunken hydatid cyst is found in the liver. Describe its appearance, and mention the structures which would enable you to distinguish its nature. Trace the life-history of the parasite concerned, in all its phases.

2. What are the characters presented by tuberculosis of the brain and tuberculosis of the membranes respectively? Mention the more usual sources of the infection in the latter case.

3. What is meant by necrosis of bone, and how is it brought about? In what different ways is the dead bone disposed of, and what circumstances determine the mode of disposal?

4. Describe the appearances met with in hydronephrosis and pyonephrosis, and give an account of the processes which lead up to these conditions.

5. Describe in detail the changes observed in acute yellow atrophy and in hypertrophic cirrhosis of the liver, and state what you know regarding the pathology of these diseases.

*(Only one question to be answered.)*

## V.—FOR DEGREES IN LAW.

## I.—PRELIMINARY EXAMINATION FOR B.L.

## a.—ARTS SUBJECTS.

(Same as for Degree of M.A. See pp. 318-334.)

## b.—FRENCH.

## FIRST PAPER.

Translate into English:—

(a) Ils firent lancer sur le toit, contre les portes et contre les fenêtres, des flèches entortillées de mèches allumées : la maison fut en flammes en un moment. Le toit tout embrasé était prêt à fondre sur les Suédois. Le roi donna tranquillement ses ordres pour éteindre le feu. Trouvant un petit baril pleine de liqueur, il prend le baril lui-même, et aidé de deux Suédois il le jette à l'endroit où le feu était le plus violent. Il se trouva que ce baril était rempli d'eau-de-vie ; mais la précipitation, inséparable d'un tel embarras, empêcha d'y penser. L'embrasement redoubla avec plus de rage ; l'appartement du roi était consumé ; la grande salle, où les Suédois se tenaient était remplie d'une fumée affreuse, mêlée de tourbillons de feu qui entraient par les portes des appartements voisins ; la moitié du toit était abymée dans la maison même, l'autre tombait en dehors en éclatant dans les flammes.

(b) Sans doute que lorsque le peuple donne ses suffrages ils doivent être publics, et ceci doit être regardé comme une loi fondamentale de la Démocratie. Il faut que le petit peuple soit éclaré par les principaux et contenu par la gravité de certains personnages. Ainsi dans la république Romaine en rendant les suffrages secrets on détruisit tout ; il ne fut plus possible d'éclairer un populace qui se perdait. Mais lorsque dans une Aristocratie le corps des nobles donne les suffrages, ou dans une démocratie le sénat, comme il n'est là question que de prévenir les brigues, les suffrages ne sauraient être trop secrets.

La brigue est dangereuse dans un sénat ; elle est dangereuse dans un corps de nobles ; elle ne l'est pas dans le peuple, dont la nature est d'agir par passion. Dans les Etats où il n'a point de part au gouvernement, il s'échauffera pour un acteur, comme il aurait fait pour les affaires. Le malheur d'une république, c'est lorsqu'il n'y a pas de brigues ; et cela arrive lorsqu'on a corrompu le peuple à prix d'argent : il devient de sang froid, il s'affectionne à l'argent, mais il ne s'affectionne plus aux affaires : sans souci du gouvernement et de ce qu'on y propose, il attend tranquillement son salaire.

(c)

MADAME JOURDAIN.

Allez, vous devriez envoyer promener tous ces gens-là avec leurs fariboles.

NICOLE.

Et surtout ce grand escogriffe de maître d'armes, qui remplit de poudre tout mon ménage.

## MONS. JOURDAN.

Ouais ! ce maître d'armes vous tient bien au cœur ! Je te veux faire voir ton impertinence tout à l'heure. (*Après avoir fait apparter les flûtres, et en avoir donné un à Nicole*) Tiens ; raison démonstrative ; la ligne du corps. Quand on pousse en quarte on n'a qu'à faire cela ; et, quand on pousse en tierce, on n'a qu'à faire cela. Voilà le moyen de n'être jamais tue : et cela n'est-il pas beau d'être assuré de son fait, quand on se bat contre quelqu'un ? La, pousse moi un peu, pour voir.

## (d) Gardez votre secret, et gardez votre argent,

Oh ! je comprends qu'on vole, et qu'on tue, et qu'on pille,  
Que par une nuit noire on force une bastille,  
D'assaut, la hache au poing, avec cent fibustiers ;  
Qu'on égorgé estafiers, geâliers et guichetiers,  
Tous taillant et hurlant, en bandits que nous sommes,  
Œil pour œil, dent pour dent, c'est bien ! hommes contre hommes !  
Mais doucement détruire une femme ! et creuser  
Sous ses pieds une trappe ! et contre elle abuser,  
Qui sait ? de son humeur peut-être hasardeuse !  
Prendre ce pauvre oiseau dans quelque glu hideuse  
Oh ! plutôt qu'arriver jusqu'à ce déshonneur,  
Plutôt qu'être, à ce prix, un riche et haut seigneur  
—Et je le dis ici pour Dieu qui voit mon âme,—  
J'aimerais mieux, plutôt qu'être à ce point infâme,  
Vil, odieux, pervers, misérable et flêtri  
Qu'un chien rongeât mon crâne au pied du pilori !

## SECOND PAPER.

## I. Translate into French :—

I had never imagined that the hard old drum could give forth such wailing sounds as Monsieur Le Grand had drawn from it. They were tears which he drummed, and they sounded ever softer and softer, and, like a troubled echo, deep sighs broke from Le Grand's breast. And they became ever more languid and ghost like ; his dry hands trembled as if from frost ; he sat as in a dream, and stirred with his drum-stick nothing but the air, and seemed listening to voices far away ; and at last he gazed on me with a deep — oh, so deep and entreating a glance. I understood him, and then his head sank down on the drum. In this life Mons. Le Grand never drummed more, and his drum never gave forth another sound, for it was not destined to serve the enemies of liberty for their servile roll calls. I had well understood the last entreating glance of Mons. Le Grand, and I at once drew the rapier from my cane and with it pierced the drum.

2. Conjugate and give second pers. sing. pres. indic., and past def. of *battre*, *venir*, *jaillir*, *amasser*, *vrir*, *s'asseoir*, *croire*, *croître*, *superposer*, *savoir*, *complaire*, *haïr*, *courir*, *moudre*.

3. When is the subjunctive mood used in French ? When is it used with *que* ? What is the difference between *veut* and *il y a*, and between *temps* and *fois* ?

4. Compare the forms of the auxiliary verbs *être* and *avoir* with the original Latin forms, explaining as far as you can the changes which have taken place.
5. (a) Give the chief facts in the history of Protestantism in France?  
 (b) What were the main causes leading up to the Revolution of 1789?
6. (a) The life and works of Molière and Rousseau.  
 (b) The literary movements connected with Ronsard and Victor Hugo.
7. What does Montesquieu say about education in the Fourth Book of *L'Esprit des Lois*?
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## II. LAW EXAMINATIONS FOR LL.B. AND B.L.

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### 1. CIVIL LAW.—*Three hours.*

1. Give a short account of the Roman Law during the period between Constantine and Justinian.
2. Explain and distinguish the terms, *jus civile*, *jus honorarium*, *jus gentium*, and *jus naturale*.
3. “*Sed rursus varum personarum quae alieno juri subjectae sunt, aliae in potestate, aliae in manu, aliae in mancipio sunt.*” Explain the different forms of power referred to in this passage.
4. Notice the limitations upon freedom of bequest which existed in the time of Justinian (1) in the interest of next of kin, (2) in the interest of the heir.
5. Give an account of the introduction and development of bequest by means of *fidei commissa*, and state the provisions of the *Senatus Consultum Trebellianum*, as amended by Justinian.
6. “*Adeo autem familiaritatem aliquam inter se habere videntur emptio et renditio, item locatio et conductio, ut in quibusdam causis quaeri soleat utrum emptio et renditio contrahatur, an locatio et conductio.*” Give your view of the principle of distinction in such cases. Illustrate your answer.
7. Distinguish between praedial and personal servitudes. Give examples of each. What place do they occupy in the classification of rights by Justinian?
8. “*Ex quibusdam tamen causis repeti non potest quod per errorem non debitum solutum sit. Namque definiverunt veteres: ex quibus causis infinitando lis erexit, ex his causis non debitum solutum repeti non posse, relati ex lege Aquilia, item ex legato.*” Translate and explain this passage.
9. Give the substance of any three of the following *leges*, vizt.:—*Juria Norbana, Cornelia de falsis, Aelia Sentia, Papia Poppaea, Fufia Caninia, Julia et Titia.*
10. Explain any four of the following terms, vizt.:—*Cretio continua, Ademptio legatorum, Bonorum addictio, Emphyteusis, In jure cessio, Bonorum possessio contra taluntas, Peculium quasi castrense, Substitutio quasi pupillaris.*

11. State whether the following stipulations were valid in the time of Justinian :—

*Pridie quam moriar dare spoudes?*  
*Cum moriar dare spoudes?*  
*Si mors ex Asia veniret, hodie dare spoudes?*  
*Si digita regium non attigeret dare spoudes?*

12. Enumerate the principal divisions of interdicts. Explain the nature of the following interdicts, vizt.: *quorum bonorum, uti possidetis, auctio, unde ei.*
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## 2. LAW OF SCOTLAND.—*Three hours.*

NOTE.—*Only TWELVE questions are to be attempted.*

1. Distinguish and illustrate Bell's doctrines of Homologation and Rei Interventus.

2. Illustrate the use and abuse of legal maxims in the following cases :—

(a) *Qui facit per alium facit per se.*  
 (b) *Volenti non fit injuria.*

3. Explain the words : vest, assoilzie, prepositura, exercitor, consanguinean.

4. Compare sale by auction with the ordinary contract :

What are the duties and responsibilities of the auctioneer to the various parties ?

5. What is the responsibility for fire, theft, and robbery of the various classes of carriers ?

6. What is stoppage in transitu ?

How may the right be barred or defeated ?

7. Define a bill, and give a short commentary on the definition ?

8. What objects are still served by an ante nuptial contract of marriage ?

9. Compare the legal position of legitimate and illegitimate children.

10. Distinguish general, special, and universal legacies, and explain the legal position of each.

11. Compare the rights of the father and of the mother as guardians of their children.

12. Give a general sketch of the law as to insane persons.

13. State generally what are the rights, powers, and duties of a trustee in bankruptcy.

14. Distinguish a public and a servitude road.

15. What are the provisions of the law to prevent delay in bringing accused persons to trial ?
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## 3. CONVEYANCING.—*Three hours.*

(THIRTEEN only of the questions are to be answered.)

1. Explain the origin and purpose of (a) sasine, (b) confirmation, and (c) resignation. Give the substance of the old form (*d*) of a procuratory of resignation *in forma*, and *c.* of a procuratory of resignation *ad remittendam*.

2. Trace the history of entry with the superior.
3. "The dispositive clause is the *regula regulans* of a deed." Explain and illustrate this.
4. What is necessary in order to constitute a real burden upon land in Scotland? Distinguish between a reservation of minerals and an ordinary restriction upon land.
5. State the rule and the exception as to what is necessary in order to found a prescriptive title.
6. Explain the right of the owner of reserved minerals to bring down the surface, and the right of the owner of the surface to support; and refer to any recent cases on the subject.
7. State the leading provisions introduced for the first time by the Consolidation Act of 1868.
8. The Conveyancing Act of 1874 says that a proprietor infest in lands shall be deemed to be entered with the nearest superior whose estate of superiority in such lands would, according to the law existing prior to the Act, have been not defeasible at the will of the proprietor so infest. Explain this.
9. Explain the procedure in a petition for power to complete a title under section 10 of the Conveyancing Act of 1874; and state exactly the circumstances to which it is applicable.
10. State the provisions of section 43 of the Conveyancing Act of 1874 as to the completion of a title to trust property where all the trustees have died; and also the qualification as to administration of the property by the person completing the title.
11. On B's death in 1854 it was found that the instrument of sasine in his favour on the feu charter by A to him was inept. How might the error have been removed? and what did the heir C pay to A by way of entry?
12. State what is meant by (a) casualty and (b) composition. How are they respectively fixed? Explain the principles laid down in (1) Ross *v.* Governors of Heriot's Hospital and (2) Blantyre *v.* Dunn.
13. A feus to B. B infest dispone *a me vel de me* to C, and C dispone *a me vel de me* to D. D dies uninfest. In how many ways, specifying them, might you in 1850 have completed the title of his heir E, (a) where C had not taken infestment and (b) where C had taken infestment but had remained unconfirmed?
14. To what extent may a liferent interest in personal estate in Scotland be conferred?
15. Where, under a destination which creates a proper fiduciary fee, infestment has been taken in the full terms of the destination, how may the title of the fairs proper be completed? Examine the point carefully.
16. What are the rights of A, B, and C in the following destinations:—
  - (a) To A in liferent, and his children in fee.
  - (b) To A in liferent, and B and C his children in fee.
  - (c) To A and B and the survivor of them.
  - (d) To A and B in liferent, and to the survivor of them in fee.
  - (e) To A in liferent, and to B and C his children, and any other children he may have, in fee.

- (f) To A in liferent for his liferent use only, and to B and C his children, and any other children he may have, and the survivors and survivor of them, all equally among them in fee.
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#### 4. (a) PUBLIC INTERNATIONAL LAW.

1. Give what you consider the best classification of States, and show whether it possesses any legal value.
2. How may a foreigner acquire British nationality? What are the rights of a person who has applied for naturalization but has not yet obtained it?
3. Give a history of the title Consul. Compare the duties of a British Consul in America and China.
4. If a person accused of an extradition crime be resident in Glasgow, what steps must be taken for his apprehension and extradition? What defences may he state, and where should these be stated?
5. What is the doctrine of continuous voyages?
6. If two forces combine in the capture of enemies' property, what rules regulate its distribution?
7. Explain the phrases: Pirate, forage, breach of neutrality, recognition, letters of marque.

*(One question to be omitted.)*

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#### (b) PRIVATE INTERNATIONAL LAW.

1. If a foreign bill be endorsed in Scotland, show how the contract of the endorser may be affected by foreign laws.
2. What is the effect of a Scottish sequestration on foreign assets and foreign contracts?
3. How is foreign law ascertained and applied in judicial proceedings?
4. If the trustee under a foreign will is vested with heritable property in Scotland, and the foreign law confers an implied power of sale, is this title to sell good?

*(One question to be omitted.)*

#### (c) PHILOSOPHY OF LAW.

1. What meanings have been put into the expression "Public Law"? Compare Constitutional and International Law.
2. The relation of Jurisprudence and Economics.
3. Compare the methods of Montesquieu and Bentham.
4. Give illustrations of genuine conflicts of laws within Scotland; and compare the modes of solution with those of so-called Private International Law.

*(One question to be omitted.)*

## 5. CONSTITUTIONAL LAW AND HISTORY.— *Three hours.*

1. Enumerate the principal prerogatives of the Crown.
2. When was procedure by petition of right instituted? Explain its nature and the scope of its application.
3. Give a short account of the history of the disqualifications for sitting as a member of Parliament, consequent upon religious belief.
4. In what respects does procedure in regard to money bills differ from procedure in regard to ordinary bills?
5. State shortly the circumstances and decisions in any three of the following cases, viz.:—*Rex v. Creevey*, 53 Geo. III., 1813; *Stockdale v. Hansard*, 2 Vict., 1839; *Somersett's Case*, 12 Geo. III., 1771-2; *Entick v. Carrington*, 6 Geo. III., 1765; *Gidley v. Lord Palmerston*, 3 Geo. IV., 1822; *Kemp v. Neville*, 24 Vict., 1861.
6. What is meant by the right to personal freedom and how is it secured by our law?
7. Discuss the functions of the House of Lords in legislation at the present day.
8. In what circumstances is a ministry justified in advising a dissolution of parliament? Justify your answer as far as possible by reference to precedent.
9. Discuss the relation between the rule of law and parliamentary sovereignty.
10. What was the Case of Commendams (1616)? Show how the proceedings connected with it illustrate the constitutional issues of the reign.
11. Explain the nature of the struggle between the Crown and parliament during the period from the Restoration to the Revolution. Illustrate your answer.
12. Give a summary of the provisions of the Bill of Rights as to legislation, taxation, the army, petitions, and parliamentary privilege.

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## 6. MEDICAL JURISPRUDENCE.—*Two hours.*

1. Mutilated portions of a human body being found in an advanced state of decomposition, what appearances might lead to the discovery of the identity of the deceased?
2. What appearances on the dead body would tend to show that the deceased had died from homicidal wounding, and that other wounds had been made after death to give rise to the idea of suicide?
3. What value is to be attached to the defence of a prisoner accused of concealment of pregnancy, who pleads that she was, up to the date of her delivery, entirely ignorant of her condition? Refer to any case which has come before the Courts of Law bearing upon the subject.
4. In a case of infanticide, what evidence of live birth—other than from the state of the lungs—may be obtained?
5. What is the bearing of the decision in the trial of M'Naughten upon the test of insanity and the criterion of criminal responsibility of the insane? State shortly the objections to which the opinions therein given are open.

## VI.—EXAMINATION FOR LUKE HISTORICAL PRIZE.

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### A.—ROMAN HISTORY.

1. State the exact date, locality, and occasion of each of the following Battles, with the names of the commanders and peoples engaged on either side :—

(1) Battle of Pydna.	(6) Battle of Aquae Sextiae.
(2) .. Asculum.	(7) .. Trebia.
(3) .. Sacriportus.	(8) .. Thapsus.
(4) .. Metaurus.	(9) .. Mylae.
(5) .. Cynoscephalae.	(10) .. Magnesia.

2. Give the date, the occasion, and the purport of the following laws :—

(1) Lex Aternia Tarpeia.	(6) Lex Cassia Tabellaria.
(2) .. Gabinia.	(7) .. Cassia Agraria.
(3) .. Icilia.	(8) .. Publilia.
(4) .. Plautia Papiria.	(9) .. Horatio de Provocatione.
(5) .. Fulvia.	(10) .. Aurelia Iudicaria.

3. Compare the religion, and the religious sentiment, of the Romans with those of the Greeks.

4. Enumerate the Roman Provinces in the time of Augustus, indicating briefly their boundaries, and naming the modern country or countries to which they correspond.

5. The influence of Etruria upon Rome.

6. What does Cicero mean by *Concordia Ordinum*? State clearly in what it consisted, and what were the courses which led to its collapse. Refer to any passages in Cicero, or periods in his life, in which reference is made to it.

7. Give the main points in the legislation of Sulla. Was it permanent? If not, why not?

8. What were the facts which rendered the establishment of a *principatus* at Rome inevitable? Trace the gradual growth of the "one man power" at Rome.

9. Trace the spread of Roman conquest in the East, with dates and names.

10. How far was the Roman electoral system successful in attracting men of the best class to politics?

11. What methods of political obstruction existed at Rome?

12. What political elements entered into the poetical literature of the Augustan age? Contrast the political attitude of Augustan writers with that of the post-Augustan age, and state the causes of the change.

### B.—GREEK HISTORY.

1. What was the distribution of power in the Greek world at the time of "Homer"? Discuss the position of (1) women, (2) slaves, (3) kings, at that time.

2. Give an account of (1) Demosthenes the General, (2) Brasidas, (3) Cleon, (4) Alcibiades.
3. What was the political attitude of Argos, from the Persian Wars to the Battle of Mantinea?
4. What were the chief points in dispute between Athens and Sparta at the time of the peace of Nicias?
5. Compare Herodotus and Thucydides as historians.
6. Describe the rule of Pisistratus and his sons. Was Athens prosperous under them?
7. How far did Solon really grapple with the problems of his time?
8. Describe what is known of political life at Sparta?
9. Give an account of the rise of Macedon before Alexander. What other powers had attempted the work which Macedon accomplished?
10. Give an account of Demosthenes' policy as directed against Philip.
11. What was Demosthenes' home policy? How did it differ from that of Eubulus?
12. How far was the Athenian democracy successful in promoting the full life of its citizens?
13. Who were Ephialtes: Thucydides, son of Melesias; Cimon: Cleophon; Thrasybulus; Amyntas?
14. Who were the three greatest Athenian patriots?
15. Give an account of the Four Hundred, the Thirty, and the Restoration of the Democracy.

## VII. CLASS EXAMINATIONS.

### MIDDLE HUMANITY CLASS.

FIRST EXAMINATION.—5th November, 1891.

1. Decline in full, both in singular and plural—*quidam, alacer, nox.*
2. Give (1) the meaning, (2) gender, (3) ablative singular, and (4) genitive plural, of the following—*vetus, adrena, arbor, crux, passus, aes, iter, filia, aedes, ciris.*
3. Write down, in a tabular form—(1) the 3rd person sing. pluperf. ind. act.; (2) the 2nd sing. impf. subj. act.; (3) the 2nd sing. fut. ind. pass.; and (4) the fut. infin. pass., of the following verbs (noting deficiencies if any)—*fingo, parco, doceo, iungo, reto, inbeo, sentio, intelligo, nanciscor, prodo, fungor, sepelio.*
4. Give the meaning of the following words, and quote or construct sentences exhibiting the construction of each—*potior, careo, pareo, diguis, indulgeo, cupio, contrarius, tenus, induor, opus.*
5. Translate into Latin:—
  - (1) I liked playing when a boy; I am wearied of all pleasure now  
I am old.
  - (2) Having heard his father encourage (*hortari*) his soldiers, and seen him resisting the enemy, I know that he is a brave man.
  - (3) I asked him why he had remained for three days at Capua without attacking the Carthaginians.

- (4) He retreated at first that he might advance (*progrederi*) the quicker afterwards; had I known that, I would have for given him at once.
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## SENIOR HUMANITY CLASS.

FIRST EXAMINATION.—4th November, 1891.

1. Translate into English one (*not both*) of the following passages :

(a) Serves iturum Caesarem in ultimos  
Orbis Britannos et invenum recens  
Examen Eois timendum  
Partibus Oceanoque rubro.  
Eheu cicatricum et sceleris pudet  
Fratrumque. Quid nos dura refugimus  
Aetas? quid intactum nefasti  
Liquimus? unde manum iuventus  
Metu deorum continuuit? quibus  
Pepercit aris? O utinam nova  
Incude difingas retusum in  
Massagetas Arabasque ferrum!

(b) Castra extra urbem in ipso litore habebat Bostar, ut aditum ea parte intercluderet Romanis. Ibi eum in secretum abductum, velut ignorantem, monet (*i.e.*, *Abelux*), quo statu sit res: metum continuisse ad eam diem Hispanorum animos, quia procul Romani abessent; nunc eis Hiberum castra Romana esse, arcem tutam perfugiumque novas volentibus res; itaque, quos metus non teneat, beneficio et gratia devincendos esse. Miranti Bostari percontantique, quodnam id subitum tantae rei donum posset esse, ‘Obsides,’ inquit, ‘in civitates remitte. Id et privatim parentibus, quorum maximum momentum in civitatibus est suis, et publice populis gratiam erit. Vult sibi quisque credi, et habita fides ipsam plerumque obligat fidem.’

2. Translate the following into Latin :—

- (a) I can count upon my fingers the persons I wish to injure.  
(b) We all of us believe that one day, when all men receive their due, the good will be separated from the evil.  
(c) He could not tell who he was, where he was going, or what he will do when he gets there.  
(d) He first sent his son to ask for the consul's pardon, and then behaved so outrageously as to disgust even his own friends.  
(e) He determined to advance so soon as the enemy should have landed.  
(f) Though you think otherwise now, I am sure that if you had seen what I did you would not have refrained from tears.

*XL.—VACATION EXERCISES, Etc.*

FOR 1892-93.

## CLASSES OF ORIENTAL LANGUAGES.

Prizes are offered for Summer Readings:—

- I. To Students of the Junior Hebrew Class of 1891-92.
    1. For an Essay on the origin, transmission, and value of the Massoretic Text.
    2. For the best profession in Hebrew Reading.
  - II. To Students of the Senior Hebrew Class of 1891-92.
    1. For the best profession in Hebrew Reading.
    2. For an original Composition in Hebrew.
  - III. Prize offered by the Students of the Aramaic Class of 1891-92: For an examination in unpointed Hebrew.
- Professions to be given in, in writing, before 30th November, 1892.
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## MORAL PHILOSOPHY CLASS.

- I. Open to Students of Session 1891-92.  
An Examination on Plato's Works, especially the *Theatetus*, *Sophist*, *Politicus*, *Philebus*, *Republic*, and *Timaeus*.
  - II. Open to Students of Session 1892-93.  
An Examination on Ferrier's Lectures on Greek Philosophy, pp. 1—266; and Zeller's Socrates and the Socratic School.
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## LOGIC CLASS.

## VACATION ESSAYS AND READING.

I. *For Students of Session 1891-92.**A.—ESSAYS.*

1. Hume, Kant, and Hamilton on Causality.
2. Nominalism, Conceptualism, and Realism.

*B.—READING.*

1. *Knowing and Being*.
2. Descartes' *Method*, *Meditations* (English Translation of 1879 or subsequent editions), with the Introductory Essay.

3. Hamilton's Discussions, viz., *Philosophy of the Unconditioned*, *Philosophy of Perception* and *Logic*, with Appendix I., Philosophical.

3. Hofding's *Outlines of Psychology* (translated by Lowndes, 1891).

A student may take up one or more of the subjects prescribed. The Essay to be given in to the Professor on Tuesday, 6th December, 1892, with sealed letter containing author's name and motto.

The Examination in reading will take place before Christmas.

- II. For students who propose to join the Class for the first time in October, 1892, the following Reading is recommended, viz.: *Institutes of Logic*, Part I., chapters i., ii., iii., iv., vi., vii., viii., ix., x., xi. (large print only); Descartes (English Translation of 1879 or subsequent edition), *Introduction*, sections I., II., III., and *Discourse on Method*.

Prizes will be given for examination in this department. The examination will take place early in November, 1892.

## ENGLISH LITERATURE.

### VACATION READING.

For Students of either Class during Session 1891-92.

1. Milton's *Lycidas*, *Comus*, *Samson Agonistes*.
2. Shelley's *Prometheus Unbound*, *Adonais*.

The Examination will take place early next Session. Students are expected to offer both subjects. A Prize will be given in each class.

## GREEK CLASSES.

### VACATION EXERCISES.

- I. Open to any member of the Greek Class, Sessions 1891-92 and 1892-93.
1. Greek Prose—Bacon, *Wisdom of the Ancients*, XXVIII., Sphynx or Science.
  2. To learn by heart Sophocles' *Antigone*, omitting the lyrical passages.
  3. To learn in the same way Aeschylus' *Agamemnon*.

The same man may enter for all the above competitions. Several prizes may be given for each competition.

- II. Open to the Senior Class of 1892-93.

A written examination in Aeschylus' *Agamemnon*, to be held in October, 1892.

- III. Open to the Lower Middle, and Junior Classes of 1891-92.

A written examination in Euripides' *Iphigeneia in Tauris*, to be held in October, 1892.

The Prose to be sent in by October 1, 1892.

## HUMANITY CLASS.

Prizes will be given for Vacation Exercises as follows :—

- I. Open to all students who shall enrol in the Senior Class of 1892-93, for the best Examination in the following subjects :—
  1. Livy, Book I.
  2. Horace, *Odes* I.; Virgil, *Eclogues*.
- II. Open to all members of the Junior Class, 1891-92.
  1. Virgil, *Aeneid* II., lines 1—450 (Sidgwick).
  2. Cicero, *Catiline* III.—IV. (Wilkins).
- III. For Latin Prose—Open to all members of the Senior Class, 1891-92. For the best translation into Latin Prose of Landor's *Imaginary Conversations* (pub. by Walter Scott, London), "Marcus Tullius and Quintus Cicero," from the beginning, "The last calamities," down to "the properties and lives of all."
- IV. For Latin Prose—Open to all Students who shall enrol in the Senior Class of 1892-93. For the best translation of Macaulay's *Essay upon Lord Clive*, rather past the middle, from "Meer Jaffer could be upheld," down to "terror of the British name."
- V. For Latin Prose—Open to all members of the Junior Class, 1891-92. For the best translation into Latin of the *Students' Rome*, cap. 59, §§ 7—10 inclusive, from "We now come," to "ambitious endeavours."

The Examinations in the above subjects will be held early in November, 1892. The exercises must be sent in to the Professor on or before November 15th. Each exercise must bear a motto and be accompanied by an envelope bearing the same motto, with the writer's name inside, together with a statement that the exercise is his own unaided work.

## CLASS OF BOTANY.

A prize is offered to Students in the Class of Botany in Session 1893, for the best and approved Herbarium of Scottish Phanerogamous and Vascular Cryptogamous plants, to be named after Hooker's *Students' Flora of the British Islands*. The specimens must have been collected upon the mainland of Scotland, or upon the Scotch Islands, between 9th July, 1892, and 9th October, 1893, and must have affixed, in addition to the name, the date and locality of collection.

The Herbaria must be sent, addressed to the Professor of Botany, to the University of Glasgow, on or before 9th October, 1893, and with each a sealed note bearing a motto outside, and containing the name of the competitor, with a declaration that the plants in the collection have all been gathered by himself in Scotland, and within the period above stated, and that they have been named by him without assistance save that derived from books or Herbaria.

The collections must be accompanied by a numbered and arranged list of the plants contained in them.

## XII.—ABSTRACT OF THE PROCEEDINGS OF THE UNIVERSITY COURT.

FROM 1ST JUNE, 1891, TO 31ST MAY, 1892.

**30th July, 1891.** The Court met. Present The Principal (in the chair); James Colquhoun, Esq.; Hector C. Cameron, M.D.; Sir J. N. Cuthbertson; David Hannay, Esq.; Professor Leishman; and Professor Stewart.

The Meeting received a deputation from the General Council on the subject of Academic dress, consisting of the following gentlemen:—Professor M'Kendrick; Rev. Donald Macleod, D.D.; Rev. David Hunter, B.D.; James Aitken, M.A.; and the Clerk, Archibald Craig, LL.B. These gentlemen referred to the report laid before the Court on 30th April last, and exhibited designs and patterns of hoods existing and proposed, and were heard at length on the subject. It was referred to the Principal, Sir J. N. Cuthbertson, Professor Leishman, and Professor Stewart to confer with the Senate upon the whole subject, and to report.

A letter from Professor Young, of date 8th June, 1891, on the subject of the Chair of Natural History and proposed Chair in Geology was read and remitted for report.

The Council's representation upon Diplomas in Public Health, which had been before the Court on 18th December last, was again considered. It was remitted to Professor Leishman, Dr. Cameron, and Professor Stewart to confer with the Senate regarding the suggestions made.

The Court elected Sir Michael Connal, Merchant in Glasgow, to be a Governor of the Stirling Educational Trust for five years from 1st August next.

A letter was submitted from the Secretary of the Glasgow Samaritan Hospital, with copy of the constitution, in which provision is made for the election of a Director by the University Court. Consideration was deferred.

Applications and testimonials from five Candidates for the vacant Examinership in Physiology were considered, and the Court appointed Thomas Oliver, M.D., 12 Elgin Square, Newcastle-on-Tyne, Examiner in Physiology for the period from 1st October, 1891, to 1st April, 1893.

The Commissioners' Draft Ordinances General, "Regulations for Examination," and Glasgow, "Regulations for Degrees in Medicine" were remitted to the Ordinance Committee for report.

The Court appointed C. M. Aikman, M.A., B.Sc., F.R.S.E., St. Vincent Street, Glasgow, till 31st March, 1895, to the office of Examiner in Chemistry, vacant through the resignation of Mr. John M. Thomson.

The Secretary submitted a letter of application for Affiliation on behalf of Queen Margaret College, together with copies of the College Calendar for 1891-92. The application was remitted to a committee for report, with power to confer with the Council of Queen Margaret College, and correspond with the Universities Commissioners.

A Minute of Meeting of the Finance Committee, of date 28th May, 1892, was submitted, bearing *inter alia* (1) that the Secretary had reported that he had instructed the Factors to lend £11,500 (being the then uninvested funds) to the Caledonian Railway Company at 3½ per cent. for one month fixed, and thereafter at 14 days' call on either side, and submitted letters embodying the bargain, of all of which the Committee approved; (2) that a service copy had been submitted of a Dean of Guild Court Petition on behalf of the Britannia Pottery Co. for leave to erect or alter buildings at Finnieston, from which the University draws certain feu-duties, and that the Committee resolved to offer no objection; (3) that additional half-yearly accounts had been passed for payment, amounting to £56 2s. 8d.; and (4) that the Committee had accepted the tender of Messrs. P. & D. Anderson, 64 Bothwell Place, for repaving the south side of the east quadrangle, eastern gate-way, &c. The Court approved.

A Minute of Meeting of the Finance Committee of 25th June, 1891, was submitted, bearing *inter alia* (1) that reports had been received and considered from the Factors and the Law Agents concerning various heritable securities belonging to the University, and (2) that the Committee had authorised the Secretary to apply to each Professor for a note of class fees to enable him to make up the statistical report required by the Act of 1889 for the year 1889-90. The Court approved.

A Minute of Meeting of the Finance Committee of 29th July, 1891, was submitted, bearing *inter alia* (1) that upon receipt of a letter from Sir William Thomson, the Committee had agreed to renew certain Spanish Bonds held for the Thomson Experimental Scholarships; (2) that a new specification for Insurance of the University Buildings had been prepared, and that the Committee had re-adjusted the holdings of the various offices; and (3) that the temporary loan to the Caledonian Railway Co. had been repaid, and that the money had been lent temporarily to the Police Commissioners at  $\frac{1}{4}$  per cent. above the Bank Deposit rate with a minimum of 2½ per cent. The Court approved.

Mr. Colquhoun reported on behalf of Mr. Hannay, Professor Stewart, and himself, that they had met the Representatives of the Union, and had adjusted terms to be embodied in the Minutes of the Court regarding the tenure of the Union Buildings, viz.—that “so long as a Students' Union exists in the University the Union Buildings shall only be used for the purposes of such Union.” It was further reported that the excerpt from the Minutes of the Union, asked for in accordance with the Court's Minutes of 5th June, 1890, had now been received.

After perusal of a correspondence which had taken place between the Law Agents of the University and the Senate in 1889, the Court resolved to pay a sum of £6 as the University share of the expense of putting evidence before the recent select Committee of the House of Commons on the question of Taxation of Feu-duties.

An Excerpt Minute of Senate was submitted, granting the privilege of Special Reader at the Library.

A copy of the Principal's letter to the Marquess of Lothian, craving that a share of the Budget Surplus should be applied for the use of the Scottish Universities was read and approved.

The Secretary read the reply he had sent to the Commissioners regarding Draft Ordinance—General Council. The reply was approved, and it

was intimated that the Commissioners had now altered the Ordinance as requested.

It was reported that intimation had been received that the following Ordinances had been transmitted to the Secretary for Scotland to be laid before both Houses of Parliament—No. 9, General Council; and No. 10, Assessors of General Council.

**27th August, 1891.**—The Court met. Present The Principal (in the chair); Sir James King, Bart.; Lord Provost Muir; James Colquhoun, Esq.; Sir J. N. Cathcartson; David Hamay, Esq.; Sheriff Berry; Professor Leishman; and Professor Stewart.

The Court considered applications and testimonials from six candidates for the Chair of Naval Architecture and Marine Engineering, vacant by the death of Professor Jenkins, and appointed to the Chair Mr. J. H. Biles, Southampton Naval Works, Southampton.

**22nd October, 1891.** The Court met. Present The Principal (in the chair); Sir James King, Bart.; James Colquhoun, Esq.; Hector C. Cameron, M.D.; Sir J. N. Cathcartson; David Hamay, Esq.; Sheriff Berry; Professor Leishman; Professor Stewart; and Professor Ramsay.

Professor Ramsay as Convener laid before the meeting various alterations and amendments recommended by the Ordinance Committee on Draft Ordinance, General, "Regulations for Degrees in Arts," etc., and the Court approved and adopted the same, and instructed the Secretary to transmit them to the Commissioners.

The Court approved of the amended Regulations for Examinations in Public Health issued on 18th February, 1891, and which had already received the approval of the Senate.

**29th October, 1891.** The Court met. Present The Principal (in the chair); Sir Archibald Campbell, Bart., M.P.; Sir James King, Bart.; Hector C. Cameron, M.D.; Sir J. N. Cathcartson; David Hamay, Esq.; Sheriff Berry; Professor Leishman; and Professor Stewart.

Draft Ordinances, General, "Regulations for Degrees in Science"; General, "Regulations as to Examinations"; and Glasgow, "Regulations for Degrees in Medicine"—were remitted to Committee for report.

The Secretary submitted two letters from the Students' Representative Council, making a suggestion as to a proposed pathway between the University Terrace and Kelvingrove Park, and was instructed to reply that the matter has already been before the University Authorities, who have carefully considered the difficulties in connection therewith; and that the Court will feel these difficulties to be so formidable that they do not see their way to take any steps in the matter.

A letter was submitted from the Universities' Commissioners asking the opinion of the Court upon an application from the Students' Representative Council to be provided with a fixed income from University Funds. Before reply the Secretary was directed to obtain from the S.R.C. a statement of the yearly expenses which the proposed income is to meet.

The following resolution from the Public Health Medical Society was submitted:—"That it is desirable that Examiners appointed to examine for Degrees or Diplomas in Public Health, Sanitary Science or State Medicine, should themselves hold qualifications in one of these subjects."

Applications for recognition of Lectures for purposes of graduation in Medicine from Professors in Queen's College and Mason Science College, Birmingham, were remitted to the Senate for report.

The following Committees were re-appointed:—The *Works Committee*—The Principal; Professor Ramsay; Sheriff Berry; Professor Leishman; and Professor Stewart (Convener); and the *Finance Committee*—The Principal; Sir James King, Bart.; Sir Archibald Campbell, Bart., M.P.; James Colquhoun, Esq. (Convener); Sir J. N. Cuthbertson; David Hannay, Esq.; and Professor Stewart.

Joseph Coats, Esq., M.D., was appointed Lecturer in Pathology for one year from November next.

A second letter from Professor Buchanan on the subject of Academic dress was remitted for report.

A letter from the Commissioners asking for the Court's final statement of the additional Financial Claims of the University was remitted to the Finance Committee in conjunction with Professor Ramsay.

Excerpt Minutes of Senate granting the privilege of Special Reader at the Library were submitted.

Intimation was received of the induction of Professor Biles by the Senate.

**19th November, 1891.**—The Court met. Present—The Principal (in the chair); James Colquhoun, Esq.; Hector C. Cameron, M.D.; Sir J. N. Cuthbertson; David Hannay, Esq.; Sheriff Berry; Professor Leishman; Professor Stewart; and Professor Ramsay.

The Court appointed Alexander Crum, Esq., of Thornliebank, and Mr. Colquhoun to be Governors of the Victoria Infirmary; and J. B. Cowan, Esq., M.D., 9 Woodside Terrace, Glasgow, and Professor Edward Caird to be Managers of the Western Infirmary, all for the ensuing year.

The Court appointed Professor Leishman as Representative of the University in the General Council of Medical Education and Registration of the United Kingdom for five years from 16th December next.

The Court appointed M. P. Fraser, M.A., LL.B., and Archibald Craig, M.A., LL.B., both Writers in Glasgow, to be Assistant Registrars for this year.

The Secretary submitted a letter from the Agents of the Rev. John Macleod, D.D., Minister of Govan, intimating a claim for Augmentation, Modification, and Locality of his Stipend. The letter was remitted to the Finance Committee.

A Minute of Meeting of the Works Committee, of date 22nd October, 1891, was submitted, bearing *inter alia* that the Committee had authorised the purchase and fitting up of a new boiler for the heating department, and had authorised certain alterations upon the platform in the Bute Hall. The Court approved.

The Court further approved of certain alterations in the fittings of the Naval Architecture Class Room.

A Minute of Meeting of the Finance Committee, dated 13th November, 1891, was submitted, bearing *inter alia* that the Accounts of Revenue and Expenditure for the year 1890-91 had been made up and sent to the Auditors for report. The Court approved.

The Court received from the special Committee on Ordinances reports on Draft Ordinances for (a) General, "Regulations for Degrees in

Science"; (b) General, "Regulations as to Examinations"; and (c) Glasgow, "Regulations for Degrees in Medicine." These were considered, altered, and revised, and instructions given for transmission to the Commissioners.

The Secretary submitted a Memorial from the Professor of Engineering upon a proposed Engineering Laboratory. After discussion it was remitted to two members of the Court to meet with the Professor and to report.

The Secretary also submitted a Memorial from the same Professor applying for apparatus and models for the Engineering Department. The Memorial was remitted to the same members.

The Secretary also submitted a Memorial from seven Professors and Lecturers regarding proposed Room, Apparatus, and Operator for the preparation of Lantern slides for illustration of Lectures. It was remitted to two members of the Court to meet with these gentlemen and to report.

An Exempt Minute of Senate granting the privilege of Special Reader at the Library was submitted.

The Court granted their concurrence to an action at the instance of Messrs. Strang, who have the privilege of shooting over the Dundonald estate at East Kilbride, against certain men caught poaching upon the ground.

**26th November, 1891.**—The Court met. Present—The Rector of the University, the Right Hon. A. J. Balfour, M.P. (in the chair); The Principal; Sir James King, Bart.; Sir Archibald Campbell, Bart., M.P.; James Colquhoun, Esq.; Sir John N. Cuthbertson; Sheriff Berry; Professor Stewart; and Professor Ramsay.

The Court approved of the appointment of Dr. Thomas Reid as Waltonian Lecturer and Lecturer on the Eye for the ensuing year.

They also approved of the appointment by Professor Barr of Mr. Alexander B. Dobbie, B.Sc., as Young Assistant; by Professor Murray of Mr. Alexander Murdoch as Class Assistant; and by Professor Ramsay of Mr. John Brown, M.A., as Class Assistant—all for the present year.

**4th December, 1891.**—The Court met. Present—The Principal (in the chair); Lord Provost Muir; James Colquhoun, Esq.; Sir J. N. Cuthbertson; Sheriff Berry; Professor Stewart; and Professor Leishman.

It was intimated that Professor Leishman had been reappointed as Assessor by the Senate for four years from 1st December, 1891.

Draft Ordinance, General, "Graduation of Women," was remitted to Committee for report.

A letter was submitted from Mr. M. P. Fraser, thanking the Court for his appointment as Assistant Registrar, and expressing his regret that on the present occasion he was unable to accept. The Court thereupon appointed to the office Mr. Robert Urquhart, M.A., Writer in Glasgow.

Consideration of a motion by Professor Ramsay (to the effect that in view of the proposals contained in the Commissioners' Draft Ordinances for Arts and Science Degrees, the present partial Entrance Examination should be discontinued), was deferred.

A Minute of Meeting of Finance Committee of this day's date was submitted, bearing *inter alia* that the Committee had authorised payment of half-yearly accounts, expenses of election of Council Assessors, etc., amounting in all to £2469 3s. 5d. The Court approved.

A letter from the Senate was submitted reporting an application on behalf of the Boys' Brigade for the use of University Gymnasium during certain evenings in the week during the winter months. After consideration the Court instructed the Secretary to reply that they were of opinion that the application should not be granted.

**5th January, 1892.**—The Court met. Present—The Principal (in the chair); Sir James King, Bart.; Hector C. Cameron, M.D.; Sir J. N. Cuthbertson; the Rev. J. W. King, M.A.; D. C. M'Vail, M.B.; Professor Stewart; Professor Ramsay; and Professor Leishman.

Formal intimation of the election by the General Council of the Rev. James Waters King, M.A., and David Caldwell M'Vail, Esq., M.B., as Assessors in the Court, was laid upon the table, and these gentlemen being present took their seats as members of Court.

The Court appointed Dr. Yellowlees as Lecturer on Insanity for the ensuing year.

Sir J. N. Cuthbertson having resigned the office of Governor of the Highland Educational Trust, the Court appointed Sir James King, Bart., in his room to hold office till 1st May, 1893.

The Court heard a report upon the Memorial of the Professor of Engineering with reference to the proposed Engineering Laboratory. Professor Barr, who was in attendance, was also heard upon the subject, and after consideration the Court approved of the scheme generally, and expressed their willingness to grant a site for the building within the grounds of the University. They also expressed their opinion that in raising the necessary funds, a sufficient sum should be raised for the endowment as well as for the building of the Laboratory. Reports were also heard upon the Memorial with regard to apparatus and models for the Engineering department, and upon the Memorial regarding a proposed room, apparatus, &c., for the preparation of lantern slides. Professor Barr was heard upon these subjects also, and the Memorials were remitted to the Finance Committee.

The Librarian's Report for 1890-91 was submitted.

The Court approved of the appointment by Professor Jack of George A. Gibson, M.A., as Class Assistant, and of E. L. Littlewood, M.A., as Private Assistant for this Session.

A Minute of Meeting of the Works Committee of this day's date was submitted, bearing *inter alia* that there had been submitted to the Committee by the Athletic Club, a Plan for a new Pavilion in the recreation grounds, and that the Committee had resolved to ask the Court to allow them to approve of it, subject to their being satisfied upon certain questions regarding drainage, &c. The Court approved.

A Minute of Meeting of the Finance Committee of 14th December, 1891, dealing with the University's statement of Financial requirements and other matters was submitted.

A Minute of Meeting of Finance Committee of this day's date was submitted, bearing *inter alia* (1) that the Committee had authorised payment of the Entrance Examiners' and Assistant Registrars' fees, &c.; and (2) that they had authorised the Factors to make periodical payments to the Treasurer of the Union of the interest accruing on the Union Fund.

Power was granted to the Finance Committee to complete and send in

to the Commissioners the University statement of additional Financial Claims.

The Court heard a report upon the letter of Professor Young, dated 5th June, 1891, laid before the Court, and remitted on 30th July, 1891. After consideration the Secretary was instructed to reply to Professor Young that the Court have no funds wherewith to provide the endowment required for the proposed Chair of Geology; but that in the statement of Financial requirements presently being prepared for the Commissioners, a claim would be made for an Assistant in each of the subjects of Natural History and Geology.

The Court approved of the terms of a reply to be sent to the Agents of the Rev. John Macleod, D.D., of Govan, to the effect that the Court cannot consent to any Augmentation, and that they will maintain the position taken up by the Senate in their correspondence in 1884.

A letter from the President of the Glasgow University Union was submitted with relative statement desiring to obtain from the Court powers to extend the premises of the Union, and with the request that the Court might appoint some of its members to meet the Union Representatives on the subject. The Court appointed four of their number to meet the Union Representatives and to report.

A report of the Ordinance Committee upon Draft Ordinance, General, "Regulations for Graduation of Women," was submitted and considered, and the Secretary was instructed to write, asking the Commissioners certain questions regarding the scope and intended effect of the Ordinance. Pending a reply, the Court postponed final adjustment of the report.

The Court appointed the following Ordinance Committee for 1892, with power to add to their number for consideration of special questions, viz., The Principal (Convener) : Sir J. N. Cuthbertson ; Rev. J. W. King ; Professor Stewart ; Professor Ramsay ; and Professor Leishman.

To this Committee were remitted for report Draft Ordinances, General, "Regulations as to Assistants and Lecturers"; and St. Andrews, Aberdeen, and Edinburgh, "Libraries."

The Ordinance Committee formerly appointed was discharged.

The Secretary submitted estimates of expenses which he had received from the Students' Representative Council, and these, together with the Commissioners letter submitted on 29th October, 1891, were remitted to the Finance Committee.

The Court authorised B. G. Cormack, M.A., B.Sc., Assistant to the Professor of Botany, to open a tutorial class in Botany in the University, but without charging any fee.

The Court received the report of the Senate upon the applications for recognition of lectures remitted to them on 29th October, 1891, and agreed to recognise for the purpose of Graduation in Medicine, subject to the consent of the Chancellor, the lectures of B. C. A. Windle, M.D., Queen's College, Birmingham, on Anatomy ; and of F. J. Allen, M.A., M.B., on Physiology ; William A. Tilden, D.Sc., on Chemistry ; T. W. Bridge, M.A., on Zoology ; and W. Hillhouse, M.A., on Botany all of Mason Science College, Birmingham.

Excerpt Minutes of Senate granting the privilege of Special Reader at the Library were submitted.

**28th January, 1892.**—The Court met. Present—The Principal (in the chair); Sir James King, Bart.; Hector C. Cameron, M.D.; Sir J. N. Cuthbertson; the Rev. J. W. King, M.A.; D. C. M'Vail, M.B.; Sheriff Berry; Professor Stewart; Professor Ramsay; and Professor Leishman.

The Court considered six applications with relative testimonials, for the vacant Examinership in Mental Philosophy, and appointed J. H. Muirhead, M.A., Lecturer on Mental and Moral Science, Royal Holloway College, Egham, to the office for three years from 31st December, 1891.

The Secretary submitted a letter from Mr. George Murray, resigning the office of Examiner in Botany from 31st March next.

John Brown, M.A., and George A. Gibson, M.A., were reappointed Additional Examiners in Arts for one year from 1st January, 1892.

A Minute of Meeting of Finance Committee of 25th January, 1891, was submitted, bearing *inter alia* (1) that owing to the present state of the University Finances the Committee were unable to recommend the Court to sanction in the meantime any of the expenditure asked for in the Memorial of the Professor of Engineering regarding Engineering apparatus, or in the Memorial of the Professors and Lecturers regarding Lantern apparatus; (2) that with regard to the expenses of the Students' Representative Council, the Committee recommended the Court to reply to the Commissioners, that in their opinion powers should be given to the Court to meet the legitimate expenses of the S.R.C. out of the General University Fund; (3) that payment of certain accounts, amounting to £81 16s. 10 $\frac{1}{2}$ d., had been authorised; (4) that the Committee recommended that a lease of four years of Vouchers Farm should be granted to the present tenant upon certain conditions; (5) that, looking to the state of the Fullarton Bursary Fund, the Committee recommended that the Bursaries on this foundation vacant for next year should be announced in the Calendar as of the value of £20; and (6) that the Committee had again revised the Draft Statement of Financial requirements to be laid before the Commissioners, and now submitted it to the Court for approval. The minute was approved.

The Court having again considered the Draft Statement of Financial requirements, remitted it to the Committee to be forwarded to the Commissioners.

An application by Mr. Thomas Trotter, of Edinburgh, for leave to deliver a course of lectures on Civil and Criminal Procedure in the University next session, was remitted to the Senate for report.

The Court having received, revised, and adjusted a report by the Ordinance Committee upon Draft Ordinance, St. Andrews, Aberdeen, and Edinburgh, "Libraries," and General, "Regulations as to Assistants and Lecturers," ordered it to be transmitted to the Commissioners.

The Secretary reported the reply he had received from the Commissioners to the questions he was instructed to put to them by Minute of 5th January, regarding the Draft Ordinance for Regulations for Graduation of Women.

A further application for Affiliation from Queen Margaret College, dated 21st January, 1892, was remitted to the Committee already appointed.

Intimation was received of the appointment by the Senate of the Principal as Gifford Lecturer for two years, beginning with next winter session.

A letter was submitted from Mr. James J. MacLehose, Hon. Secretary

to the subscribers of a fund for a Memorial to the late Dr. A. B. McGrigor, intimating that the subscribers had resolved to offer to the University as a Memorial a stained glass window in the Bute or the Randolph Hall, and the Secretary was instructed to reply that the Court cordially accede to the proposal—the position and design of the window to be afterwards approved.

An Excerpt Minute of Senate granting the privilege of Special Reader at the University Library was submitted.

The Secretary reported the Chancellor's consent to the recognition of the lectures of the Professors of Queen's College and Mason Science College, Birmingham.

**25th February, 1892.** The Court met. Present The Principal (in the chair); Sir James King, Bart.; James Colquhoun, Esq.; Hector C. Cameron, M.D.; Sir J. N. Cuthbertson; Rev. J. W. King, M.A.; D. C. McVail, M.B.; Sheriff Berry; Professor Stewart; Professor Ramsay; and Professor Leishman.

The Court appointed Arthur D. Millar, M.A., as Additional Examiner in Arts for the year.

The Court considered the applications and testimonials of 26 candidates for the vacant Examinerships in Anatomy, Midwifery, Medical Jurisprudence, and Botany, and made the following appointments: A. M. Buchanan, M.D., to be Examiner in Anatomy; John Philips, M.A., M.D., M.R.C.P., 71 Grosvenor Street, London, W., to be Examiner in Midwifery; W. J. Naismith, M.D., F.R.C.S.E., 13 Alloway Place, Ayr, to be Examiner in Medical Jurisprudence; and J. R. Green, M.A., F.L.S., Pharmaceutical Society of Great Britain, Bloomsbury Square, London, to be Examiner in Botany—all for four years from 1st April, 1892.

A second letter received from the Secretary of the Glasgow Samaritan Hospital was considered along with the letter laid before the Court on 30th July last, and after consideration the Secretary of the Court was instructed to reply that the membership of the Court being limited, they do not at present see their way to add to the duties of any member by his appointment to the Samaritan Board.

The Secretary submitted a second letter from the President of the Union with reference to the proposed extension of the Union premises, and also a statement of the finances of the Union. These were remitted for report to the Principal and others, who had already been appointed to meet the Union Representatives.

The Court again took up the report upon Draft Ordinance, General, "Regulations for Graduation of Women," and having finally adjusted the terms thereof, instructed the Secretary to forward it to the Commissioners.

A Minute of Meeting of the Finance Committee of 30th January, 1891, was submitted and approved, bearing that the Committee had transmitted the Financial Claim to the Commissioners.

A Minute of Meeting of the Works Committee of 3rd February, 1892, was submitted, bearing *inter alia* (1) that the Committee had now approved of the plans for the Athletic Club's new Pavilion; and (2) that they had authorised a slight alteration to be made on the door of the chamber at the back of the Organ in the Bute Hall to prevent draughts. The minute was approved.

A Minute of Meeting of the Works Committee of 25th February, 1892, was submitted and approved, *inter alia* reporting that an application had been submitted by Lord Kelvin for a new Engine for the Electric Light.

The Secretary submitted a representation from the Students' Representative Council regarding the use of a room at the University for the Council's purposes, and was directed to reply that the Council would still be allowed the same use of the room they had hitherto had, and that if desired a cabinet might be provided for the preservation of papers.

The Secretary submitted a representation from the Students' Representative Council regarding the dates for payment of instalments of Bursaries, and was instructed to reply that the Court deem it inexpedient to make any change in the present arrangements until the Commissioners have issued definite regulations regarding the date of commencement and duration of the winter session.

A representation from the Students' Representative Council regarding hat and coat pegs in the class rooms was remitted to the Works Committee.

A report of the Committee on the application of Queen Margaret College for Affiliation was submitted, containing a Memorandum of conditions for Affiliation, of which the Court approved. It was remitted to the Committee to intimate the Court's approval to Queen Margaret College, and to transmit the report to the Commissioners.

The Court approved of the institution of a class of Physics for Medical Students to meet the requirements of the General Medical Council.

An application by James Swanson, M.A., M.B., C.M., Glasgow, for recognition of his lectures on Botany was remitted to the Senate for report.

The Court agreed, on fulfilment of certain conditions as to insurance, etc., to grant the loan of the Mace for exhibition among a collection of old Scots Maces soon to be exhibited in the Natural Museum of Antiquities, Edinburgh.

The Secretary reported that he had received service of the Athletic Club's Petition for Dean of Guild Court lining for the erection of the new Pavilion, and had intimated that no objection would be offered.

**24th March, 1892.**—The Court met. Present—The Principal (in the chair) : Sir James King, Bart. ; Hector C. Cameron, M.D. ; Sir J. N. Cuthbertson ; The Rev. J. W. King, M.A. ; D. C. M'Vail, M.B. ; Sheriff Berry : Professor Stewart ; Professor Ramsay ; and Professor Leishman.

A representation of the General Council that the "business of the University Court should be transacted in public, except in cases where it is found expedient to sit in private," was submitted, and the Secretary was instructed to reply that the Court does not see its way at present to give effect to the recommendation of the Council.

The Court received a report by the Senate upon the application of Mr. Trotter for leave to deliver in the University a course of lectures on Procedure, and, after consideration, resolved not to accede to the application.

A second application from the Boys' Brigade for the use of the gymnasium was considered, and the Secretary was instructed to reply that the Court, with regret, feel that they must adhere to the declination formerly intimated.

Copy of a letter addressed by the Scottish Universities Commissioners to the Senatus of the University of Edinburgh upon the subject of the degree of Doctorate of Arts was deferred for future consideration.

Intimation was received that the following Ordinances had been laid before both Houses of Parliament, in terms of Section 20 of the Act of 1889:

- |     |                                    |  |
|-----|------------------------------------|--|
| (1) | Ordinance No. 11 (General, No. 6), | Regulations for Degrees in Arts.   |
| (2) | " No. 12 (General, No. 7),         | Do. for Degrees in Science.  |
| (3) | " No. 13 (General, No. 8),         | Do. as to Examinations.  |
| (4) | " No. 14 (Glasgow, No. 1),         | Do. for Degrees in Medicine.   |
| (5) | " No. 17 (General, No. 10),        | Do. as to Assistants and Lecturers.  |
| (6) | " No. 18 (General, No. 9),         | Do. for Graduation of Women and for their Instruction in the Universities. |

These Ordinances were remitted to the Ordinance Committee to examine.

A Minute of Meeting of the Finance Committee of date 21st March, 1892, was approved, reporting *inter alia* (1) that the Committee had dealt with the rate of interest on certain of the University investments; (2) that the usual additional grant of £30 for binding had been made to the University Library; (3) that the usual grant had been made to the Divinity Hall Library, amounting this year to £42 13s.; (4) that the Committee had agreed to an assignment of the lease of Chipping Barnet Farm, from the representatives of the last tenant (now deceased), when a new and suitable tenant is found; and (5) that the Secretary had been instructed to communicate with the other Universities Courts asking whether they would concur in a joint representation now to be made for an increased share of the Equivalent Grant.

The Secretary reported the answers he had received from the Courts of the other Scottish Universities regarding the proposed joint representation for an increased share of the Equivalent Grant. It was remitted to the Principal, Mr. Colquhoun, and Professor Stewart to address a letter to the First Lord of the Treasury on the subject, and to watch the progress of the Bill in the interests of the University.

A letter was submitted from the Clerk of the General Council, together with a report of the Business Committee and a newspaper report of a recent meeting of the Council, making application to the Court for funds to enable the Council to take action to oppose the passing into law of certain Ordinances in their present form, and the Secretary was instructed to reply that, in view of the fact that the Universities Commissioners have not issued any Ordinances under Section XIV. (10) of the Act of 1889 making such provision as they think necessary to enable the General Council to discharge its duties, the Court regret that they cannot undertake responsibility for the expenses referred to.

Upon a report from the Factors, it was agreed to grant a lease of Vouchers Farm for four years to Mr. Wakelin, the present tenant, at a rent equal to the amount of the yearly tithes. Mr. Wakelin making payment of all other burdens upon the farm as at present, he also paying the expense of the lease.

A Minute of Meeting of the Works Committee of 8th March, 1892, was approved, dealing with various repairs and alterations in the University buildings.

In answer to a letter from the Secretary of the Union, the Court formally granted permission to extend the Union premises, provided the Union can first show sufficient funds for such extension - it being understood that the funds referred to are to be sufficient to cover, to the Court's satisfaction, the additional expense of maintenance which an extended building will involve.

A letter was submitted from the Secretary of Queen Margaret College proposing that the question of affiliation should be postponed for a time, and the Court agreed to allow the matter to lie over in the meantime.

A letter from the Commissioners was submitted in further explanation of the draft Ordinance affecting Graduation of Women, etc.

In answer to a letter from the Clerk of Senate pointing out that should Ordinance No. 11 become law, the present Entrance Examination in the Faculty of Arts will no longer be necessary, the Secretary was directed to reply that no reference to the Entrance Examination need be made in the next issue of the Calendar.

On a representation from the Senate, the Court reconsidered the question of the fee for the new class in Physics, and fixed it at £3 3s. for each student.

Professor Leishman submitted a report of the Committee on Qualification in Public Health. The report was ordered to be printed and circulated among the members.

An Excerpt Minute of Senate granting the privilege of Special Reader at the Library was submitted.

In answer to a letter from the Secretary of the Students' Representative Council, the Secretary was directed to instruct the Master of Works to have a cabinet made, to be placed in the room used by the Students' Representative Council for the use of the officials of the Council.

The Secretary reported that the Court had been granted absolvitor, with £1 of expenses, in the Small Debt case of *Menzies v. The University Court*. He was directed to instruct the law agents that the Court do not intend to exact payment of the expenses decreed for.

28th April, 1892.—The Court met. Present The Principal (in the chair); Lord Provost Muir; Sir James King, Bart.; James Colquhoun, Esq.; Sir J. N. Cuthbertson; the Rev. J. W. King, M.A.; D. C. M'Vail, M.B.; Sheriff Berry; Professor Stewart; Professor Ramsay; and Professor Leishman.

The Court considered and adopted the report of Committee on Public Health, under remit of date 30th July, 1891.

A Minute of Meeting of the Finance Committee of yesterday's date (1) authorising the payment of tradesmen's half-yearly accounts amounting to £2640 16s. 3½d., (2) reporting that the auditors had now completed their yearly audit, and dealing with other matters, was approved.

A Minute of Meeting of the Works Committee of 26th April was read and approved, dealing with the various repairs and work to be done upon the University buildings during the summer.

The Court considered and approved of a report by the Committee on the subject of academic costume, and remitted it to the Committee to make one or two additions proposed.

The Secretary was instructed to reply to a further letter from the agents of Dr. Macleod, of Govan, that the Court decline to enter into an arbitration on the question of augmentation.

The Court considered various memorials which had been laid before the "Bellahouston Trustees," making claims, on behalf of the University, for a share of the funds to be distributed by them, and instructed the Secretary to write to the "Bellahouston Trustees" expressing the willingness of the Court to furnish them with any information they might desire as to the needs of the University.

There was laid on the table a memorial by the Professors in the Faculty of Arts as to the means of providing class assistants for next winter in the event of Ordinance No. 11 becoming law before that date, and the Court agreed to consider the question in the event of the circumstances arising mentioned in the memorial.

The Court considered the question of making any representation to the Houses of Parliament upon the Ordinances now lying before them, and, whilst recognising certain defects in these Ordinances, were of opinion that the delay necessary to any alteration would be more injurious than the temporary existence of the defects in the Ordinances, and resolved to represent the desirableness of the sanction of Her Majesty being obtained to the Ordinances in their present state.

The Principal reported the terms of a letter he had addressed to the First Lord of the Treasury as to the Equivalent Grant and the reply received thereto.

An additional letter from Queen Margaret College was submitted and remitted to a Committee with powers as before.

Various summer tutorial classes in the University were approved and the fees fixed.

On the recommendation of the Senate, the Court agreed to recognise for the purpose of Graduation in Medicine, and subject to the consent of the Chancellor, the lectures of Mr. James Swanson, 20 Woodlands Road, Glasgow, on Botany.

Excerpt Minutes of Senate granting the privilege of Special Reader at the Library were submitted.

Intimation was received of the resignation of G. G. Henderson, D.Sc., assistant to the Professor of Chemistry.

The Court approved of the appointment by the Professor of Chemistry of Mr. William R. Lang, B.Sc., as one of his official assistants.

Permission was granted to the Athletic Club to charge gate money and to put up barricades and to make other arrangements for their approaching athletic sports.

20th May, 1892. The Court met. Present—The Principal (in the chair); Sir James King, Bart.; James Colequhoun, Esq.; H. C. Cameron, M.D.; the Rev. J. W. King, M.A.; D. C. McVail, M.B.; Sheriff Berry; Professor Stewart; Professor Leishman; and Professor Ramsay.

A representation from the Senate that it would be necessary to appoint an assistant to the Professor of Oriental Languages was submitted, to-

gether with a printed statement by the Professor. There was also submitted a representation from the Senate that it is desirable to appoint an assistant in each of the classes of English Literature, Logic, and Moral Philosophy, and a joint memorial from the Professors of these subjects. The Secretary was instructed to reply that these matters would have the attention of the Court at the proper time.

It was intimated that the Senate had agreed to the delivery by Professor Ferguson of a short course of lectures on Organic Chemistry during the ensuing summer. On the understanding that this class is not one intended for Medical Students, the Court fixed the fee at £1 1s. for each Student for the course.

The Secretary reported that he had received the Chancellor's consent to the recognition of the lectures of Mr. James Swanson on Botany for purposes of graduation in medicine.

Sheriff Berry, on behalf of Professor Stewart, Mr. Colquhoun, and himself, reported the terms of a letter sent by them to the Commissioners, in terms of a remit of 25th February, 1892, regarding the memorial of the Law Professors of the various Universities on Graduation in Law.

The Secretary submitted a letter from the Commissioners, making certain suggestions as to financial arrangements regarding the payment of Assistants and Examiners, etc., in view of Ordinance No. 11 shortly becoming law. He was directed to forward copies to the Senate and to the seven Professors specially interested for their report. Thereafter the letter was remitted to a Committee for report.

A letter from Dr. Coats was submitted, with copy correspondence between him and the Commissioners regarding arrangements for the teaching of Pathology in the University, and the Secretary was instructed to reply to Dr. Coats that in the opinion of the Court it is desirable that Practical Pathology should be taught in connection with this University by an arrangement between the University and the Western Infirmary.

An Excerpt Minute of Senate granting the privilege of Special Reader at the Library was submitted.

A Memorial from the students of the Botany class regarding the accommodation for laboratory teaching was laid before the Court.

The Principal announced that the Chancellor, the Lord Provost, and he had now considered the question referred to them by the promoters of the late University bazaar as to the allocation of the surplus (amounting to £2000 odds) over the £10,000 originally aimed at and realised, and that they had determined that the money should be allocated for the same objects and in the same proportions as the £10,000 above referred to, viz., one-fourth to the gymnasium and athletic club equally, and the rest to the Union.

A letter was submitted from the Secretary of the Union, with a statement of the estimated cost of the proposed extension, and requesting the leave of the Court to proceed with the building. The letter was remitted to a Committee with power to grant the leave asked, provided the Union can show binding offers from tradesmen under which the extension can be completed at a sum within the means of the Union.

The meeting authorised the execution of a lease of the Vouchers Farm by the Court to Mr. Wakelin, the present tenant.

XIII.—FINANCIAL STATEMENT OF THE UNIVERSITY FOR THE YEAR 1890-91.

ANNUAL SALARIES (EXCLUSIVE OF CLASS FEES) ATTACHED TO OFFICE OF PRINCIPAL, AND TO THE PROFESSORSHIPS, ASSISTANTSHIPS, LECTURESHIPS, AND EXAMINERSHIPS IN THE UNIVERSITY, BY ORDINANCE OF THE UNIVERSITIES COMMISSIONERS AND DEEDS OF FOUNDATION; AND ANNUAL PENSIONS TO RETIRED PROFESSORS.

PRINCIPAL.

Salary,	£973 15 5
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FACULTY OF ARTS.

	Salaries of Professors.	Salaries of Assistants.	Allowances for Class Expenses.
Logic,	£286 11 2	.....	.....
Moral Philosophy,	281 2 2	.....	.....
Natural Philosophy,	299 6 8	£235 0 0	£100 0 0
Greek,	289 8 11	100 0 0	.....
Humanity,	289 8 11	100 0 0	.....
Mathematics,	292 0 0	100 0 0	..
Astronomy,	300 2 10	.....	..
Civil Engineering,	482 13 9	147 0 0	..
English Literature,	200 0 0	.....	..
Naval Architecture,	500 0 0	.....	..
	£3,220 14 5	£682 0 0	£100 0 0

FACULTY OF THEOLOGY.

Divinity,	£394 13 2	.....	..
Oriental Languages,	299 19 11	.....	..
Ecclesiastical History,	335 3 5	.....	..
Biblical Criticism,	502 16 7	.....	..
	£1,532 13 1		

## FACULTY OF LAW.

	Salaries of Professors.	Salaries of Assistants.	Allowances for Class Expenses.
Law, . . . . .	£310 0 0	.....	.....
Conveyancing, . . . . .	105 0 0	.....	.....
	<hr/>	<hr/>	<hr/>
	£415 0 0		

## FACULTY OF MEDICINE.

Medicine, . . . . .	£270 0 0	.....	.....
Anatomy, . . . . .	250 0 0	.....	£200 0 0
Natural History, . . . . .	210 1 0	£91 7 9	.....
Surgery, . . . . .	100 0 0	.....	.....
Midwifery, . . . . .	100 0 0	.....	.....
Chemistry, . . . . .	200 0 0	200 0 0	70 0 0
Botany, . . . . .	210 1 0	.....	.....
Materia Medica, . . . . .	100 0 0	25 0 0	50 0 0
Institutes of Medicine, . . . . .	150 0 0	106 2 6	.....
Forensic Medicine, . . . . .	100 0 0	25 0 0	35 0 0
Clinical Surgery, . . . . .	112 11 5	.....	.....
Clinical Medicine, . . . . .	112 11 6	.....	.....
	<hr/>	<hr/>	<hr/>
	£1,915 4 11	£447 10 3	£355 0 0

## LECTURERS.

Waltonian, . . . . .	£93 5 6
Gifford, . . . . .	553 1 7
Honyman-Gillespie, . . . . .	200 0 0
	<hr/>
	£846 7 1

## EXAMINERS FOR DEGREES, &amp;c.

Three in Arts, . . . . .	£240 0 0
Twelve in Medicine, . . . . .	416 10 0
Three in Law, . . . . .	63 0 0
Three Additional Examiners in Arts, . . . . .	90 0 0
Two Entrance Examiners, . . . . .	30 0 0
	<hr/>
	£839 10 0

## PENSIONS.

Five Retired Professors, . . . . .	£3,051 17 8
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## SUMMARY.

The Principal, . . . . .	£973	15	5
Arts Chairs, . . . . .	3,220	14	5
,, Assistants, . . . . .	682	0	0
,, Class Expenses, . . . . .	100	0	0
Divinity Chairs, . . . . .	1,532	13	1
Law Chairs, . . . . .	415	0	0
Medical Chairs, . . . . .	1,915	4	11
,, Assistants, . . . . .	447	10	3
,, Class Expenses, . . . . .	355	0	0
Lecturers, . . . . .	846	7	1
Examiners in Arts, Medicine, and Law, . . . . .	839	10	0
Retired Professors, . . . . .	3,051	17	8
	£14,379	12	10

NOTE.—To the Principalship and each of the Chairs founded before 1800 an official residence is attached, and also some small allowances for Taxes, Lighting, House Repairs, etc., amounting in all to about £18.

## STATEMENT OF THE INCOME AND EXPENDITURE OF THE UNIVERSITY FOR THE YEAR 1890-91.

The College Revenue is derived—(a) From Teinds arising from grants by James, Archbishop of Glasgow, in 1557; by James VI., in 1577 and 1618; by Charles I., in 1630; by Charles II., in 1664 and 1670. (b) From Fees Duties, etc., of lands granted by James, Lord Hamilton, in 1459; William and Thomas Arthurlie, 1466; Queen Mary, 1563; of the lands, etc., of the Friars Preachers, granted by Queen Mary in 1566 to the Town for pious uses, and conveyed by the Town, under Act of Scottish Parliament in 1572, to the College; and from other ancient foundations. (c) From proceeds of investments of the surplus rents of the Archbischoprick of Glasgow, from 1694 to 1839. The lease of the Archbischoprick was granted first by William III., in 1690, for nineteen years, for payment of the then debts of the University, and other University purposes. The lease was renewed by successive sovereigns till 1825, when £100 per annum from the Archbischoprick was added to the salary of the Regius Professor of Botany; and £800 per annum was granted for general University purposes till 1839. In 1841 the Crown applied the £800 per annum to salaries for certain chairs in the patronage of the Crown. (d) From proceeds of investments from time to time of the annual surplus of income over expenditure.

The gross revenue derived from these sources amounted in 1890-91 to £9,450 17s. 9½d. But out of this were paid Ministers' Stipends (£1,619 16s. 7½d.), Income and Property Tax (£177 18s. 9½d.), Bursaries (£133 2s. 3d.), leaving nett income £7,520 0s. 2d., of which £3,685 15s. 7d. has been allocated at various times from 1577 to 1817 to salaries of Principal and Professors, and the balance of £3,834 4s. 7d. is transferred (under Ordinance 22) to the General University Fund as stated below.

INCOME OF THE UNIVERSITY DESTINED BY DEED,  
STATUTE, OR ORDINANCE.

I. For Salaries of Principal, Professors, and Lecturers :—

(1.) Teinds and Endowments under Charters of James VI., Charles I., and Charles II., etc., as stated above, . . .	£3,685 15 7
(2.) Treasury Grant, . . .	2,768 6 4
(3.) From Deanery of Chapel Royal (Chair of Bib. Crit.),	*355 16 7
(4.) Foundation of Conveyancing Chair, paid yearly by Faculty of Procurators, . . .	105 0 0
(5.) Yates (Shuna) Fund, . . .	0 0 0
(6.) M'Turk's Foundation, . . .	12 7 10
(7.) John Elder Foundations, . . .	707 13 9
(8.) A recent Foundation, . . .	50 4 10
(9.) Foundation of Clinical Sur- gery Chair, . . .	112 11 5
(10.) Foundation of Clinical Medi- cine Chair, . . .	112 11 6
(11.) The Black Bequest (Chair of Biblical Criticism), . . .	*147 0 0
(12.) Waltonian Lectureship, . . .	93 5 6
(13.) Gifford Lectureship, . . .	553 1 7
(14.) Honyman-Gillespie Lectureship,	200 0 0
	£8,903 14 11

II. For Class Assistants and Class Expenses :—

(1.) From General University Fund for the Chairs of Natural Philosophy, Anatomy, Che- mistry, Materia Medica, and Forensic Medicine, under Ordinance 22, . . .	£455 0 0
(2.) From Parliamentary Grant for Class Assistants, under Ordinance 22, . . .	650 0 0
(3.) From the Black Bequest for the "Young" Assistant, . . .	147 0 0
(4.) From the Arnott and Thomson Demonstratorship Fund, . . .	135 0 0
(5.) From the Muirhead Demon- stratorship Fund, . . .	106 2 6
(6.) From the Baxter Demo- nstratorship Fund, . . .	91 7 9
	1,584 10 3
Carry forward, . . .	£10,488 5 2

\* Exclusive of Income Tax.

Brought forward, . . . . .	£10,488	5	2
III. For Non-Professorial Examiners:—			
(1.) From Parliamentary Grants, under Ordinances 14 and 15,	£480	0	0
(2.) From General University Fund, . . . . .	314	10	0
(3.) From Foundations, . . . . .	45	0	0
	—————		
	839	10	0
IV. For Retired Professors:—			
From Parliamentary Grant, under Ordinance 26,	3,051	17	8
Total Income destined to Maintenance of Teaching Staff, as above, . . . . .	£14,379	12	10
Total Disposable Income (£11,304 1s. 1d.) as below, less £455 for Class Assistants and Class Expenses charged below against General University Fund, . . . . .	10,849	1	1
Total University Income, . . . . .	£25,228	14	11
	—————		

### INCOME AND EXPENDITURE OF GENERAL UNIVERSITY FUND, 1890-91.

#### INCOME.

1. Balance of Revenue from Teinds, etc., under Charters of James VI. and Charles I., and Capitalized Sav- ings, as stated p. 413, . . . . .	£3,834	4	7
2. Matriculation Fees, . . . . .	2,041	5	0
3. Graduation and Examination Fees, . . . . .	3,361	15	0
4. Library Subscriptions, . . . . .	97	13	0
5. General Council Registration Fees, . . . . .	204	0	0
6. Compensation for Stationers' Hall Privilege, . . . . .	707	0	0
7. Do. Proportion of Grant due by Treasury to 31st March, 1890, . . . . .	431	19	0
8. Income of Legacies for Library, etc., . . . . .	61	7	6
9. Anonymous Donation to Library, . . . . .	63	15	0
10. Students' Catalogue, . . . . .	1	2	0
11. Treasury Grant for Maintenance of Buildings, . . . . .	500	0	0
	—————		
	£11,304	1	1
	—————		

#### EXPENDITURE.

1. <i>University Court and Senate</i> —			
1. Secretary to the University Court, and Outlays, . . . . .	£331	16	5½
2. Clerk of Senate, . . . . .	105	0	0
3. Assistant Clerks and Outlays, . . . . .	350	0	0
	—————		
Carry forward, . . . . .	£786	16	5½

	Brought forward,	.	.	.	£786	16	5½
II.	<i>General Council</i> —						
1.	Registration, etc.,	.	.	.	252	2	4
2.	Election of Assessors, .	.	.	.	4	11	3
III.	<i>Business, etc.</i> —						
1.	Factor's Salary and Outlays, £497	14	7½				
2.	Auditor, .	21	0	0			
				—————	518	14	7½
IV.	<i>Libraries</i> —						
1.	Librarians' Salaries, .	£686	2	0			
2.	To Account of New Catalogue, .	29	1	3			
3.	Books and Binding (including a balance still to expend), .	1,394	1	6			
4.	Stationery, etc., .	5	2	0			
5.	Divinity Hall Library, .	40	11	0			
6.	Incidental Expenses, .	10	0	0			
				—————	2,164	17	9
V.	<i>Hunterian Museum</i> , .	.	.	.	297	0	0
VI.	<i>Observatory</i> , .	.	.	.	219	0	4½
VII.	<i>Buildings</i> —						
1.	Repairs, .	£798	12	6½			
2.	Lighting, .	249	13	9			
3.	Heating and Ventilating, .	634	16	10			
4.	Water, .	96	2	0			
5.	Insurance, .	244	18	9			
				—————	2,024	3	10½
VIII.	<i>Service, Cleaning, and Maintenance of Grounds</i> ,	.	.	.	1,240	13	0
IX.	<i>Class Assistants and Class Expenses</i> —						
1.	Allocated by Commissioners' Ordinance, .	£455	0	0			
2.	Allowed in other Classes, .	82	17	0			
				—————	£537	17	0
	Not expended, .				0	11	2
				—————			
X.	<i>Printing and Advertising</i> —				537	5	19
1.	Printer's Accounts, .	£381	4	2			
2.	Newspaper Accounts, .	198	11	7			
3.	Examination Books, etc., .	113	19	10			
				—————	693	15	7
XI.	<i>Prizes and Medals</i> , .	.	.	.	172	4	5
XII.	<i>Compensation for Graduation Fees under Com- missioners' Ordinance</i> , .	.	.	.	50	0	0
XIII.	<i>Gratuities</i> , .	.	.	.	46	0	0
XIV.	<i>Contribution to Glasgow Police</i> , .	.	.	.	21	0	0
XV.	<i>Public Burdens, etc.</i> , .	.	.	.	393	14	8
XVI.	<i>Law Examiners</i> , .	.	.	.	63	0	0
	Carry forward, .	.	.	.	£9,485	0	2

	Brought forward,	£	9	485	0	2
XVII.	<i>Medical Examiners,</i>		176	10	0	
XVIII.	<i>Extra Examiners (Share),</i>		45	0	0	
XIX.	<i>Entrance Examiners,</i>		30	0	0	
XX.	<i>Expenses connected with Examinations,</i>		63	12	8	
XXI.	<i>Interest on Loan from late Mr. Randolph's Trust,</i>		877	10	0	
XXII.	<i>Chapel,</i>		102	5	6	
XXIII.	<i>Microscopes for Class of Physiology,</i>		50	0	0	
XXIV.	<i>Miscellaneous,</i>		89	5	5	
	Total General Fund Expenditure,	£	10,919	3	9	
	Surplus,		384	17	4	
	Together, equal to Income,	£	11,304	1	1	

INCOME OF TRUST FUNDS FOR BURSARIES, SCHOLARSHIPS,  
AND PRIZES.

1.	From Capital Funds in charge of the University,	£	7,219	12	0
2.	From Estate managed by Balliol College, Oxford— 5 Exhibitions, at £80,		400	0	0
3.	From Funds in the hands of the Town Council, Merchants' House, and Trustees, about		5,670	0	0
		£	13,289	12	0

## CLASS FEES.

## FACULTY OF ARTS.

Logic and Rhetoric,	£	650	9	6
Moral Philosophy,		598	9	0
Natural Philosophy,		919	6	0
Greek,		1,036	16	0
Humanity,		1,268	6	6
Mathematics,		1,341	18	0
Practical Astronomy,		15	15	0
Civil Engineering and Mechanics,		295	1	0
English Language and Literature,		650	10	0
Naval Architecture,		299	15	0

## FACULTY OF DIVINITY.

Divinity,	£	229	19	0
Oriental Languages,		218	0	0
Ecclesiastical History,		152	8	0
Divinity and Biblical Criticism,		144	18	0

## FACULTY OF LAW.

Roman Law and Law of Scotland, . . . . .	£422	2	0
Conveyancing, . . . . .	281	8	0
Public Law, . . . . .	53	11	0

## FACULTY OF MEDICINE.

Practice of Medicine, . . . . .	£533	11	10
Anatomy, . . . . .	1,808	0	0
Natural History, . . . . .	751	0	0
Surgery, . . . . .	1,514	8	9
Midwifery, . . . . .	551	5	0
Chemistry, . . . . .	1,237	14	0
Botany, . . . . .	816	18	0
Materia Medica, . . . . .	914	0	0
Physiology, . . . . .	843	3	0
Forensic Medicine, . . . . .	600	14	0
Clinical Surgery, . . . . .	188	0	0
Clinical Medicine, . . . . .	377	4	6
Lectures on the Eye, . . . . .	11	11	0
Insanity, . . . . .	16	16	0
Pathology, . . . . .	568	1	0

## APPENDIX—I.

## LIST OF MEMBERS

INCLUDED IN

## THE REGISTER

OF

## THE GENERAL COUNCIL

FOR THE YEAR COMMENCING 1<sup>st</sup> JANUARY, 1892,

WITH ABBREVIATED ADDRESSES, ETC.

**N.B.** So far as information has been available down to the time of publishing the calendar, addresses, etc., have been corrected, and names of deceased Members removed. Members are requested to intimate to the Registrar any change of designation (*i.e.*, profession or calling), or of permanent address. Representatives of deceased Members are also requested to make intimation, in order that the names of such Members may be removed.

- Abbot, R. T., M.D., Bray, Co. Wicklow  
 Abbermister, Peter H., M.B., Mekleries, Paisley  
 Abercromby, R., M.A., minister, Norwich  
 Aeworth, W., M.A., minister, South Stoke  
 Adam, Alex., M.B., Glasgow  
 Adam, Basil J., M.B., 3 W. Garden st., Glasgow  
 Adam, David S., B.D., minister, F.C. Mansie, Kelso  
 Adam, Hector M., M.A., minister, Aberdeen  
 Adam, Jas., M.A., tch., 25 Marshall st., Glasgow  
 Adam, James, M.A., M.B., Stirling  
 Adam, James A., M.A., student, Glasgow  
 Adam, John, M.B., 12 George street, Paisley  
 Adam, John, M.B., 2 Knowe ter., Pollokshields  
 Adam, John M., M.B., Port Dundas  
 Adam, John W., M.B., Stepper rd., near Glasgow  
 Adam, Peter, B.D., prob., 39 Bank st., Greenock  
 Adam, Robert H., M.A., M.B., Paisley  
 Adam, Thomas, M.A., student, Cumbernauld  
 Adam, Thomas B., M.D., Largs  
 Adam, William, M.A., teacher, Glasgow  
 Adam, William John, M.B., Hillhead, Glasgow  
 Adam, William T., M.B., Workington  
 Adams, James A., M.D., Waterside ter., Glasgow  
 Adams, John, M.A., B.Sc., teacher, Aberdeen  
 Adams, J., B.D., prob., Holburn st., Aberdeen  
 Adams, John, M.B., 8 Melrose street, Glasgow  
 Adams, John E., B.D., probationer, Hamilton  
 Adams, William S., M.D., Jersey  
 Adams, J. James, M.D., Hollands-Hide  
 Adams, James, M.A., student, Kinloss  
 Adams, J. G., M.D., Lurgan, Armagh  
 Adams, W. F., M.A., minister, Galashiels  
 Adie, John, M.A., minister, Perth  
 Fleck, John, M.A., D.Sc., Ayr  
 Gnew, Alex., M.A., tch., 2 Glasgow st., Hillhead  
 Gnew, Alex., M.B., Burnley, Lancashire  
 Gnew, J. M., minister, Longhope, Orkney  
 Gnew, Rbt. R., M.A., tch., 11 Hopetoun pl., Glas.  
 Iken, Jas., M.A., stud., 5 Glenavon ter., Partick  
 Iken, James, M.A., writer, Dalmoak  
 Aiken, J. B., M.A., writer, Dalmoak  
 Aikman, Charles Brown, writer, Glasgow  
 Aikman, Chas. M., M.A., B.Sc., chemist, Glasgow  
 Aikman, John, M.D., Guernsey  
 Aird, Alex. W., M.B., Newmilns  
 Aird, Hugh, M.A., D.D., minister, Brechin  
 Aird, Robert, M.A., tch., Lochend, Campbeltown  
 Aitken, David, M.A., teacher, Paisley  
 Aitken, Jas., M.A., stud., 15 Glasgow st., Hillhead  
 Aitken, James, M.B., 39 Gibson street, Hillhead  
 Aitken, James, M.B., 12 Dalhousie st., Glasgow  
 Aitken, Jas. A., M.B., 29 S. Cumberland st., Glas.  
 Aitken, Jas. R., M.A., stu., Regent's Pk., Lon., N.W.  
 Aitken, John, M.D., Govan  
 Aitken, John, M.D., Buckhaven  
 Aitken, P. H., M.A., B.Sc., B.D., min., London  
 Aitken, R., B.L., writer, Edinburgh  
 Aitken, Robert Easton, C.A., Glasgow  
 Aitken, W. B., M.B., Carsehead, Dalry  
 Aiton, Thomas, B.A., minister, Livingston  
 Aiton, W., B.L., law agent, Glasgow  
 Alexander, Andrew, M.A., surgeon, London, E.C.  
 Alexander, Arch., M.A., min., Spittal, Berwick  
 Alexander, Arch. B. D., M.A., min., Langbank  
 Alexander, Archibald S., M.D., Plymouth  
 Alexander, Charles A., M.B., Denny  
 Alexander, David R., M.A., stu., Clarkfield, Partick  
 Alexander, Jas., M.B., Waterside house, Fenwick  
 Alexander, John, M.A., minister, Partick  
 Alexander, John, M.A., minister, Pitcairn, Perth  
 Alexander, J. B., M.A., min., Hawaiian Islands  
 Alexander, Peter, M.A., teacher, Glasgow  
 Alexander, Robert, minister, Dunfermline  
 Alexander, R., M.A., teacher, Glasgow  
 Alexander, Samuel, M.D., Larkhall  
 Alexander, Samuel P., M.D., Glasgow  
 Alexander, T. G., M.B., Glasgow  
 Alexander, Walter, M.A., student, Millerston  
 Alexander, William, M.D., Dundonald  
 Alexander, W. M., B.Sc., B.D., M.D., Bombay

- Alison, Sir A., Bart., LL.D., K.C.B., lt.-gen., London  
 Alison, Archibald, minister, Prestwick  
 Alison, Arthur, advocate, Edinburgh  
 Alison, George, minister, Kilbarchan  
 Alison, J., M.A., D.D., min., Newington, Edinburgh  
 Alison, Samuel S., M.A., minister, Belfast  
 Allan, Arthur, M.A., student, Manse, Fairlie  
 Allan, C., M.A., min., E. Bank, U.P. Manse, Hawick  
 Allan, Geo. F., LL.B., writer, Hillhead  
 Allan, George R., B.A., M.D., Glasgow  
 Allan, Henry, M.A., student, Glasgow  
 Allan, James Paul, M.D., Renfrew  
 Allan, James W., M.B., Belvidere Hosp., Glasgow  
 Allan, John, M.D., Klerksdorp, Transvaal  
 Allan, J., M.A., surveyor of taxes, Hamilton  
 Allan, Robert, M.B., Ardrossan  
 Allan, William, M.B., Langlands House, Govan  
 Allan, William, M.A., student, Glasgow  
 Allan, Wm., B.Sc., C.E., Elderslie ho., Strathaven  
 Allan, W., M.B., Cramlington, Northumberland  
 Allan, W. C., M.B., Klerksdorp, Transvaal  
 Allan, William C., M.A., student, Minuition, Barr  
 Allardice, John, M.A., teacher, Lerwick  
 Allardyce, John M., M.A., missionary, Pekin  
 Allen, Charles, M.A., minister, Convoy  
 Allen, Robert A., M.D., Chatham  
 Allen, William B., M.B., Glasgow  
 Allen, William E.L., M.B., Hawkshead, Ambleside  
 Allison, Alexander, M.D., Loanhead  
 Allison, James, minister, Alexandria  
 Allison, John Dunn, M.A., stud., Cartvale, Paisley  
 Almond, H. H., LL.D., N. Esk Lodge, Musselburgh  
 Alpine, George, B.D., minister, Dumbarton  
 Alston, Andrew, minister, Carlisle  
 Alston, And., M.A., law clerk, U.P. Manse, Carlisle  
 Alston, James M., M.D., Airdrie  
 Anderson, A., M.A., minister, Carlisle  
 Anderson, Alexander M., M.D., Dundee  
 Anderson, A. R., M.A., teacher, Edinburgh  
 Anderson, David, minister, Ceres, Fife  
 Anderson, F., M.A., professor, Sydney, N.S.W.  
 Anderson, G., M.B., Stockton-on-Tees  
 Anderson, George, minister, New Cumnock  
 Anderson, G., M.A., B.D., minister, Bothkennar  
 Anderson, Henry, minister, Partick  
 Anderson, H., M.B., Billinge, Wigan  
 Anderson, H. S., M.A., student, Kilmaurs  
 Anderson, James, M.A., teacher, Annan  
 Anderson, Jas., M.B., Poulton-le-Fylde, Lancashire  
 Anderson, J. F., M.A., writer, Glasgow  
 Anderson, James H., manufacturer, London  
 Anderson, James Rae, M.D., Canonbie  
 Anderson, J. Wallace, M.D., Glasgow  
 Anderson, John, B.D., minister, Lerwick  
 Anderson, J., B.D., minister, Kelvinside  
 Anderson, John, M.D., London, S.E.  
 Anderson, John A., M.D., Stranraer  
 Anderson, J. B. M., M.A., M.B., Glasgow  
 Anderson, J. W., M.A., M.B., Barrow-in-Furness  
 Anderson, Jonathan, writer, Glasgow  
 Anderson, M. S., M.A., M.B., Kilbirnie  
 Anderson, Robert, M.B., Busby  
 Anderson, Robert, D.D., minister, Glasgow  
 Anderson, Robert, minister, Kilsyth  
 Anderson, Robt. C., M.A., stud., New Kilpatrick  
 Anderson, Robert H., manufacturer, London  
 Anderson, R. S. G., M.A., B.D., prob., Ontario  
 Anderson, Thomas A., writer, Glasgow  
 Anderson, T. McCall, M.D., professor, Glasgow  
 Anderson, Thos. P., M.B., 17 Hamilton ter., Partick  
 Anderson, William, LL.B., student, Glasgow  
 Anderson, William, minister, Fettercairn  
 Anderson, William, J.P., Edinburgh  
 Anderson, William, minister, Boyndie, Banff  
 Anderson, William, minister, Culz  
 Anderson, Wm., M.B., Bedford ho., Pollokshields  
 Anderson, W. H., M.B., Harleston, Suffolk  
 Anderson, William S., M.D., Chapel-en-le-Frith  
 Anderson, G. L., M.D., Douglas, Isle of Man  
 Andrew, Alexander, M.B., Barrow-on-Humber  
 Andrew, Alexander, M.A., student, Paisley  
 Andrew, Alexander, minister, Glasgow  
 Andrew, Jas. G., M.B., 6 Walmer cres., Glasgow  
 Andrew, Robert, M.A., student, Paisley  
 Andrew, R., M.A., B.D., minister, Glengarnock  
 Andrew, W. S., M.A., student, Bo'ness  
 Angus, Robert, missionary, Chryston  
 Annan, Archibald J., B.L., writer, Glasgow  
 Appleton, Henry, M.D., 22 Seymour st., London, W.  
 Armbuckle, John H., M.D., Kilmarnock  
 Armour, Andrew, M.D., Redhouse, Crook  
 Armour, Matthew, minister, Sanday  
 Armstrong, G. C., M.D., Blackrock, Dublin  
 Armstrong, H., B.D., prob., London rd., Glasgow  
 Armstrong, W. A. A., M.A., minister, Reading  
 Arnot, Thomas, writer, Glasgow  
 Arnott, Hugh Y., M.A., stud., Kinloch, Blairgowrie  
 Arnott, James, M.D., surgeon-major, London  
 Arnott, John, M.A., student, Peel, Kirkintilloch  
 Arrol, C., M.D., Bankstown, Sheerness  
 Arthur, Adam Niven, teacher, Dunoon  
 Arthur, David, minister, Aberdeen  
 Arthur, David, M.B., New Galloway  
 Arthur, D. F., minister, Banchory-Devenick  
 Arthur, Hugh, M.B., Airdrie  
 Arthur, James, minister, Springburn  
 Arthur, James, M.A., teacher, Largs  
 Arthur, John Findlay, M.D., New Cumnock  
 Arthur, Patrick, M.D., Lambourne  
 Arthur, W., M.D., Mirfield, Yorkshire  
 Ashcroft, F., M.A., missionary, Kelvinside  
 Ashurst, Fred., M.B., 43 Market st., Blackpool  
 Aspin, And.H., M.A., clerk, 1 Crown ter., Downhill  
 Atkinson, J. P., M.D., Saffron Walden  
 Auld, A. G., M.D., 3 Lugar place, Kelvinside  
 Auld, Archibald, M.B., Snaith, Yorks  
 Auld, Charles, M.D., Kilwinning  
 Auld, William, B.D., minister, Carnock  
 Auld, William, M.B., Myrtle Park, Crosshill  
 Austin, R., M.D., Ranelagh, Dublin  
 Babbie, William, M.B., Dumbarton  
 Badnoch, Geo. Roy, LL.D., minister, Lee, Kent  
 Bailey, William E., M.B., Stockport  
 Baillie, David, M.A., stu., 5 Walworth ter., Glasgow  
 Bain, Archibald W., M.A., teacher, Smyrna  
 Bain, James, minister, Glasgow  
 Bain, James A., M.A., student, Glasgow  
 Bain, James G., M.B., Arnwood, Southsea, Portsmouth  
 Bain, Joseph, Record editor, London, S.W.  
 Bain, Robert, M.A., student, Glasgow  
 Bain, R. W. K., M.A., advocate, Aberdeen  
 Bainbrigge, W. P. Y., M.B., Droitwich  
 Baird, And., B.D., assist. min., Shotts  
 Baird, David, M.A., stud., Shewalton ter., Irvine

- aird, Hugh, minister, Cumbernauld  
 aird, John, B.D., minister, Helensburgh  
 aird, John, M.B., Hillhead, Glasgow  
 aird, John, M.B., Bonnybridge  
 aird, Robert, writer, London  
 aird, Senator J., M.B., Limerick  
 aird, William James, M.D., North Shields  
 aker, John C., M.D., Liverpool  
 albirnie, John, M.A., M.D., Plumtree, Notts  
 alderston, J. C., minister, West Kilbride  
 alfou, Arthur J., M.P., 4 Carltongar, London, S.W.  
 alfou, David D., sheriff-substitute, Glasgow  
 allantyne, James, M.D., Catrine  
 allantyne, James T., M.B., Over Darwen  
 allantyne, William, minister, London  
 allardie, S.W., M.A., stu., 40 Kenmurest, P'shields  
 alloch, Robert, merchant, Glasgow  
 amber, H., M.B., Artois Villa, Chatham  
 amber, W. R., M.A., minister, London, E.C.  
 ankhead, W. T., M.A., minister, Ibrox  
 ankier, Alex, M., M.D., Wolverhampton  
 ankier, G. S. H., M.D., Ashton-under-Lyne  
 ankier, P. M., M.A., student, Canada  
 anks, Alex., M.A., minister, Carnwath  
 anks, Chas., M.B., Priorscroft house, Paisley  
 anks, John, M.B., Dunoon  
 anks, Robert, M.B., Belford, Northumberland  
 annatyne, A., M.A., minister, Lochgilphead  
 annatyne, Chas., M.B., Glaishnockst., Old Cumnock  
 annatyne, D. J., writer, New Jersey  
 annatyne, Gilbert A., M.D., 1 Paragon, Bath  
 annatyne, John, minister, Takaka, N.Z.  
 annatyne, Mark, writer, Glasgow  
 unnerman, C., M.A., student, Langside  
 unnerman, G. G., M.B., Hawick  
 arber, Wm., M.A., of Tererran, Moniaive  
 rbour, James M., M.B., London  
 rbour, John B., M.B., Fever Hospital, London  
 rbour, Wm. M.B., 32 Hayburn cres., Partick  
 relay, Arthur, M.B., Netley  
 relay, James, LL.B., Glasgow  
 relay, James, M.A., D.D., minister, Montreal  
 relay, J., M.A., D.D., minister, Toronto  
 relay, Robt. D., B.Sc., mech. eng., Edinburgh  
 relay, Robt. F., M.A., stud., 21 Park ter., Glasgow  
 relay, Thomas, M.A., minister, Glasgow  
 relay, T., M.A., advocate, Edinburgh  
 ker, Alex. E., LL.B., barrister, London  
 ker, Francis J., M.A., stu., 1 Bowmontter, K'side  
 ker, H. M., LL.D., teacher, Glasgow  
 las, Alex. R., M.A., Loc. Gov. Board, Dublin  
 nett, John, minister, Kilchoman  
 nett, J., M.A., minister, Moneymore  
 r, Alexander, minister, Airdrie  
 r, A., D.Sc., C.E., professor, Glasgow  
 r, H., B.L., writer, 45 W. George st., Glasgow  
 r, James, preacher, Maryhill  
 r, James, M.B., Hagg crescent, Johnstone  
 r, James, M.D., Everton, Liverpool  
 r, James, M.A., minister, Wamphray  
 r, James B., M.B., Port-Glasgow  
 r, Jas. K., M.A., tch., 113 G. Hamilton st., Glas.  
 r, John, surgeon, Rishton, Blackburn  
 r, John F., B.Sc., M.B., Coldstream ho., P'shields  
 r, Patrick, B.L., writer, Glasgow  
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 Wilson, John, minister, Aberdeen  
 Wilson, J., M.A., minister, Abernyte  
 Wilson, J., M.A., minister, Methven  
 Wilson, John, M.D., 210 Saracen street, Glasgow  
 Wilson, John, M.D., Manchester  
 Wilson, John, M.B., 38 Monteith row, Glasgow  
 Wilson, John, M.A., teacher, Glasgow  
 Wilson, John C., M.B., Blantyre  
 Wilson, J. G., M.D., Ashton-under-Lyne  
 Wilson, James S., M.D., Wallsall  
 Wilson, John, M.A., student, Tillycoultry  
 Wilson, John, minister, Bellshill  
 Wilson, John, M.D., Brookborough  
 Wilson, John N., M.B., Jarrow-on-Tyne  
 Wilson, John R., M.A., minister, Hawick  
 Wilson, J., M.A., s'master, Leatherhead, Surrey  
 Wilson, Matthew, M.A., stu., Broomhouse, Glas.

- Wilson, Matthew, M.A., Johnstone  
 Wilson, Matthew G., M.A., student, Glasgow  
 Wilson, Peter, M.A., minister, Leith  
 Wilson, Robert, surgeon, Coatbridge  
 Wilson, R., M.A., minister, North Ronaldshay  
 Wilson, Robert, M.D., 38 Monteith row, Glasgow  
 Wilson, Robt., M.B., 21 Derby street, Glasgow  
 Wilson, R. A., M.D., Hornby, Lancaster  
 Wilson, Stewart, M.D., Omagh  
 Wilson, T., M.A., minister, Lesmahagow  
 Wilson, Thomas H., M.A., teacher, Strathaven  
 Wilson, Thos. L., minister, Longside, Aberdeen  
 Wilson, William, M.A., student, Bothwell  
 Wilson, William, M.D., Irvine  
 Wilson, W. B., preacher, Bellshill  
 Wilson, William A., M.D., Greenock  
 Wilson, William W., M.A., minister, Auchnagatt  
 Wilson, Wm. M., M.B., Mavisbank, Airdrie  
 Wilson, William M'K., M.B., Glasgow  
 Wingate, Donald, M.B., Haswell, Durham  
 Wingate, Walter, M.A., student, Tollerross  
 Wingate, Wm., minister, Bayswater, London  
 Winn, James M., M.D., London, N.W.  
 Winning, W., M.A., Rutherglen  
 Wishart, Robert, minister, Thornhill  
 Wishart, R. S., M.A., teacher, Chryston  
 Wolfe, John Reissberg, M.D., Glasgow  
 Wood, Jas. B., B.D., prob., 16 River st., Brechin  
 Wood, Percival J., M.A., teacher, Burton Stather  
 Woodburn, A., B.Sc., C.E., Allangrove, Prestwick  
 Woodburn, James C., M.D., Glasgow  
 Woodgates, Samuel H., M.D., Exeter  
 Woods, Thomas, M.D., Parsonstown  
 Woodside, David, B.D., minister, Glasgow  
 Wooley, Samuel P., M.B., Bradford  
 Wortabet, James R., M.B., Beyrouth, Syria  
 Wotherspoon, A. S. M.B., Schoolho., Stonehouse  
 Wotherspoon, John, M.B., Seattle, Wash., U.S.A.  
 Wotherspoon, W. L., minister, Kilspindie  
 Wray, William, M.A., minister, Cookstown  
 Wright, Alexander, M.A., minister, Musselburgh  
 Wright, D., M.A., stu., 48 Houldsworth st., Glas.  
 Wright, D., M.A., minister, Bellahouston  
 Wright, Hugh, writer, Edinburgh  
 Wright, John, M.B., Eskbank, Dalkeith  
 Wright, John C., M.B., Glasgow  
 Wright, John S., M.B., 94 Henderson st., Glasgow  
 Wright, Peter, minister, Forfar  
 Wright, Thos., M.A., stu., Houston sq., Johnstone  
 Wright, William, minister, Lochee  
 Wyer, Otho F., M.D., Leamington  
 Wylie, A. Howie, M.D., Oldham  
 Wylie, A., M.A., min., 11 Lutton pl., Edinburgh  
 Wylie, Alexander, W.S., Edinburgh  
 Wylie, Alex., M.B., Croxall Grange, Lichfield  
 Wylie, And., M.B., Garnocklea, Hamilton  
 Wylie, James, M.B., 64 Kelvingrove st., Glasgow  
 Wylie, James A., M.A., student, Hamilton  
 Wylie, John, M.B., The Crescent, Dalmuir  
 Wylie, John, M.B., Stewarton, Ayrshire  
 Wylie, Rich. J., M.B., 1 The College, Glasgow  
 Wylie, W., M.A., teacher, Rutherglen  
 Wylie, Wm. S., B.L., law-cl., 160 W. George st., Glas.  
 Wyllie, John, M.D., 262 Beverley road, Hull  
 Wyllie, William, M.D., Kirby, Lonsdale  
 Wyllie, William, M.A., minister, Eyemouth  
 Wyper, J. N., B.L., law-cl., 40 Claremont st., Gla.  
 Yair, David W., minister, Firth, Orkney  
 Yair, John M., M.B., Bournemouth  
 Yarrow, Henry, M.B., Glasgow  
 Yeaman, George, M.D., Glasgow  
 Yeo, Gerald, M.D., Harling, Petersfield  
 York, William, writer, Glasgow  
 Young, Alexander, writer, Glasgow  
 Young, Alexander, minister, Glasgow  
 Young, A. A., M.A., stu., 11 Gt. Western ter., Gla.  
 Young, Archibald, M.A., minister, Aberdeen  
 Young, Daniel L., M.A., clerk, Glasgow  
 Young, David, M.D., Glasgow  
 Young, David, D.D., minister, Bridge-of-Allan  
 Young, David, M.B., Partick  
 Young, David, M.A., stu., F.C. Hall, Glasgow  
 Young, E. D., M.A., W.S., Edinburgh  
 Young, F. S., M.A., stu., 11 Gt. Western ter., Gla.  
 Young, George B., B.L., student, Falkirk  
 Young, Homer, M.A., student, Partick  
 Young, Hugh C. T., M.B., Paisley  
 Young, J., M.A., tch., South Schoolhouse, Bigg  
 Young, James, M.D., Hanham, Gloucester  
 Young, James, minister, Tighnabruaich  
 Young, J., M.A., minister, Paisley  
 Young, Jas. J. T., M.B., F.C. manse, Tighnabruaich  
 Young, James W., writer, Kilsyth  
 Young, J., M.D., professor, Glasgow  
 Young, J., M.B., Earlston  
 Young, John, M.D., Sheffield  
 Young, John, minister, Greenock  
 Young, J., M.A., B.Sc., secy. to Tech. Coll., Gla.  
 Young, John, M.B., 3 Whitchill gardens, Glas.  
 Young, John, M.A., stu., 10 High street, Bathgate  
 Young, J. M., M.B., 149 Beverley rd., Hull  
 Young, John M., M.A., M.B., Glasgow  
 Young, R. Arthur, LL.B., stud., Glasgow  
 Young, R. B., M.A., M.B., Downhill  
 Young, Robert H., M.B., Glasgow  
 Young, Robert, M.A., student, Paisley  
 Young, Robert R., M.B., 2 Melbourne st., Leicest.  
 Young, R. T., M.A., student, Bridge-of-Allan  
 Young, Thomas, M.D., Manchester  
 Young, Thomas C., LL.B., writer, Glasgow  
 Young, William, M.A., minister, Baldernoch  
 Young, William G., M.D., Glasgow  
 Young, William, minister, Barrhead  
 Young, William M., M.A., M.B., Glasgow  
 Young, W. R., M.A., teacher, Newhouse, Stirlin.  
 Younger, Arch. S., B.Sc., eng., 15 Arlington st., Gla.  
 Younger, Henry J., M.A., M.B., Greenock  
 Younger, R. T., LL.B., advocate, Edinburgh  
 Yuill, John, M.B., Tannochside, Uddingston  
 Yuille, James, minister, Peterhead  
 Zinkeisen, William, B.Sc., student, Glasgow  
 Zuill, John, M.A., M.B., Buchlyvie  
 Zuill, Robert, M.B., Buchlyvie

## APPENDIX II.

UNIVERSITY OF GLASGOW LOCAL  
EXAMINATIONS.

## BOARD OF MANAGEMENT.

Vice-Chancellor and Principal JOHN CAIRD, D.D., *President*

Professor DICKSON.	Professor FERGUSON.
.. RAMSAY.	.. M'KENDRICK.
.. VEITCH.	.. CLELAND.
.. E. CAIRD.	.. JACK.
.. YOUNG.	.. LINDSAY, F.C. College.
.. STEWART.	

Professor STEWART, *Honorary Secretary.*

JAMES COUTTS, M.A., *Secretary.*

## EXAMINERS.

David S. Adam, M.A.; Patrick H. Aitken, M.A., B.Sc., B.D.; James Bonar, LL.D.; James T. Bottomley, M.A., D.Sc., F.R.S.; Professor Bower, D.Sc.; Professor Bradley, M.A.; John Brown, M.A.; Professor E. Caird, LL.D.; Professor Cleland, M.D.; John A. Cramb, M.A.; Professor Dickson, D.D.; Professor Dobbie, D.Sc.; J. M. Dodds, M.A.; John Dougall, M.A.; Professor Ferguson, M.A., LL.D.; J. H. Fullarton, M.A., D.Sc.; George A. Gibson, M.A.; Professor Grant, LL.D.; R. Greenlees; G. G. Henderson, M.A., D.Sc.; W. R. Herkless, M.A., LL.B.; Professor Jack, LL.D.; Professor Jones, M.A.; Professor Lord Kelvin, LL.D., D.C.L., P.R.S.; Rev. T. B. Kilpatrick, B.D.; Gavin Lambie, M.A.; Professor Lindsay, D.D.; J. H. Muirhead, B.A.; Alex. Murdoch; James A. McCallum, M.A.; Professor McCormick, M.A.; Professor M'Kendrick, M.D., F.R.S.; John S. M'Kenzie, M.A.; Magnus M'Lean, M.A.; James Macmillan, M.A.; Professor Murray, B.A.; Rev. W. Patrick, B.D.; R. H. Pinkerton, M.A.; Professor Ramsay, LL.D.; Professor Robertson, D.D.; J. M. Robertson, M.A., M.B.; W. Smart, M.A.; Montague Smith; Professor Stewart, D.D.; Professor Story, D.D.; Professor Strong, LL.D.; Alex. Tille, Ph.D.; Professor Veitch, LL.D.; R. M. Wenley, M.A., D.Sc.; J. Muir Wood; Professor Young, M.D.

The Board may add to the number of Examiners before the date fixed for the next Examination.

## LOCAL CENTRES AND SECRETARIES, 1892.

<i>Boumorie,</i>	...	...	Rev. J. M'Gilchrist.
<i>Dumbarton,</i>	...	...	Rev. George Alpine, B.D.
<i>Dunoon,</i>	...	...	Daniel Anderson, Esq., Solicitor.
<i>Greenock,</i>	...	...	M. F. Dunlop, Esq., Writer.
<i>Hamilton,</i>	...	...	James L. Loudon, Esq., M.B.
<i>Helensburgh,</i>	...	...	Rev. John Baird, B.D.
<i>Kilmarnock,</i>	...	...	J. P. Stevenson, Esq., Solicitor.
<i>Rothesay,</i>	...	...	Arch. Mackirdy, Esq.
<i>Whitehaven,</i>	...	...	Rev. Alex. Lairn.

## REGULATIONS FOR 1893.

The Examinations for 1893 will be held on 30th and 31st May, and 1st and 2nd June. Both boys and girls are admitted, but boys are not admitted above the age of 18.

Enrolment forms may be obtained from the Secretary at the University, in the month of April. Candidates must fill up and return these forms *on or before the 1st May*, forwarding the fees at the same time. Unless by special permission, candidates will not be admitted to enrolment after 1st May.

PLACES OF EXAMINATION.—Candidates will be examined at the University, Glasgow, and at such places as the Board may appoint as Local Centres. The Board undertake to establish a Local Centre in any place (excepting the other University seats, St. Andrews, Aberdeen, and Edinburgh), upon the following conditions:—1. A Local Committee of those interested in the higher education of the district must be formed, and must make the local arrangements required for the proper conducting of the Examination. 2. In order that any place may be recognised as a Local Centre, fees to the amount of at least £5 must be contributed by or on behalf of the candidates enrolling for examination at such place. 3. Any expenses incident to the Examination at each Local Centre (but not including fees to Examiners) must be borne by the Local Committee.

The Secretary of the Local Committee will receive from the candidates belonging to the district their enrolment forms, duly filled up, and their fees, and will transmit them *not later than 2nd May* to the Secretary of the Board at the University.

CERTIFICATES.—The Certificates granted by the Board are as follows, viz. :—

- I. Junior, } for both boys and girls.
- II. Senior, }
- III. Higher, for women.

They are signed by the Vice-Chancellor of the University, and specify in each case the subjects in which the candidate has passed.

The following privileges are attached to the Certificates granted by the Board:—1. Students proposing to enter on the study of medicine in this University or other Medical School are required to pass a Preliminary

Examination in General Education, but the holders of Junior or Senior Certificates embracing the requisite subjects are exempted from further examination.\* 2. Students holding a Senior Certificate bearing that the holder has passed with not less than 60 per cent. of the marks attainable in Latin, Greek, or Mathematics, have hitherto been qualified to attend, in any of the Scottish Universities, the Higher Classes in the subject or subjects passed, without having previously attended the Junior Classes in the same department, and provided such students had passed with the required percentage in Latin and Greek, they might complete the curriculum for a Degree in Arts in three Sessions. 3. The Senior Certificate—provided that it comprises one or more of the following subjects, viz., Latin, Greek, French, German—is accepted as qualifying for admission to Girton College, Cambridge. 4. Females holding the Senior Certificate or the Higher Certificate may act as assistant teachers under Art. 79 of the Scotch Code of the Education Department, and under Art. 47 *b.* 2 may obtain Government Certificates after twelve months' service in a day school receiving Government Grants. It may also be mentioned that candidates who have passed in the Common Subjects are exempted by the Glasgow School Board from the examinations prescribed for intending pupil-teachers in their schools.

The subjects of Examination proficiency in which gives a right to a Certificate are divided into four groups:—

- (a) Common Subjects.
- (b) Special Subjects for the Junior Certificate.
- (c) Special Subjects for the Senior Certificate.
- (d) Special Subjects for the Higher Certificate.

All candidates for the Junior and for the Senior Certificate are required to pass in five common subjects, viz.:—1. English; 2. History or Scripture History; 3. Geography; 4. Arithmetic; 5. Latin or French or German, to the extent specified.

Candidates for the Junior Certificate must also pass in a selection from Group (b); and candidates for the Senior in a selection from Group (c). Candidates for the Higher Certificate must pass in a selection from Group (d). The selection must in each case be made in accordance with the regulations.

Candidates for the Junior or Senior Certificate may take the Common and the Special Subjects in different years. The names of those who pass in the Common Subjects are published, but no Certificate is issued till the candidates have also passed in the Special Subjects.

Candidates for Junior, Senior, or Higher Certificates may also present themselves for Examination in Drawing and Music, and their proficiency in these EXTRA SUBJECTS will be recorded in the Certificates, but the numerical values obtained will not be taken into account in arranging the order of merit.

The Time Tables should be consulted by candidates in selecting their lines of study, so as to ensure that the hours of examination in the various subjects selected may be compatible.

\* The General Medical Council have resolved that after 1st January, 1892, all the requisite subjects must be passed at the same time.

The subjects in Group (*b*) are arranged in four departments, and the subjects (in number at least *three*, and not more than *four*) selected by any candidate must be taken from at least two of the departments. Department A comprehends—1. English Composition and English Literature; 2. History and Geography; 3. Scripture. Department B—1. Latin; 2. Greek; 3. French; 4. German. Department C—1. Mathematics; 2. Natural Philosophy; 3. Astronomy. Department D—1. Chemistry; 2. Botany; 3. Zoology; 4. Physiology; 5. Geology and Physiography. From Department D not more than one subject may be taken.

The subjects in Group (*c*) are also arranged in four departments, and the subjects (in number at least *three*, and not more than *five*) selected by any candidate must be taken from at least two of the departments. Department E comprehends—1. English Literature; 2. History; 3. Political Economy; 4. Logic; 5. Scripture. Department F—1. Latin; 2. Greek; 3. French; 4. German. Department G—1. Mathematics; 2. Natural Philosophy; 3. Astronomy. Department H—1. Chemistry; 2. Botany; 3. Zoology; 4. Human Physiology; 5. Geology. From Department H not more than one subject may be taken.

The subjects in Group (*d*) are arranged in five departments, viz.:—Department A—English Language and Literature. Department B—1. Latin; 2. Greek; 3. French; 4. Italian; 5. German. Department C—1. Mathematics; 2. Natural Philosophy; 3. Astronomy. Department D—1. Psychology, Logic, and Metaphysics; 2. Moral Philosophy; 3. Political Economy; 4. History; 5. Scripture. Department E—1. Chemistry; 2. Botany; 3. Geology and Physical Geography; 4. Zoology; 5. Physiology. The range of selection allowed to candidates for the Higher Certificate varies according to their preliminary qualifications. If the candidate has taken the Senior Certificate in the Local Examinations of any University, or if she has attained the age of 18 years, and passed in the subjects included under Group (*a*), or an equivalent examination, she may offer herself for examination in at least *three* and not more than *six* subjects taken from at least three of the departments. If the candidate has attained the age of 18 years, but has not passed the examination specified above, she may offer herself for examination in Department A, and, in addition, in at least *three* and not more than *five* subjects, taken from at least two of the remaining departments, provided always that one of these additional subjects shall be Mathematics or taken from Department B. No girl under the age of 18 is admitted to the examination for the Higher Certificate unless she holds a Senior Certificate.

Under the reservation that candidates are not entitled to Honours or Commendation unless they pass in all the Special Subjects in one year, successful candidates for the Senior and the Junior Certificate are ranked in three grades according to the degree of proficiency displayed, viz.:—

1. With Honours.—Those who pass with an average of not less than 75 per cent. of the marks attainable in each of their Special Subjects. Candidates who obtain such percentage in the maximum number of Special Subjects which they are allowed to take up will be recorded as having passed with highest Honours.

2. With Commendation.—Those who pass with an average less than 75 per cent. but not less than 65 per cent. of the marks attainable in each of their Special Subjects. Candidates who obtain such percentage in the maximum number of subjects will be recorded as passing with Special Commendation.

3. Pass.—Those who obtain pass marks in the requisite subjects, but fail to attain to the standard for Commendation.

Passing with Honours or with Commendation will be recorded in the Certificates, as well as in the Report and books of the Board.

Those who obtain Higher Certificates are arranged in order of merit, with a deduction in the case of Candidates who take more than three subjects of 50 per cent. for each subject in excess of three.

An Honour List is published containing the names of those candidates for the Higher Certificate who obtain 75 per cent. and upwards in each of two or more subjects.

No certificate is granted if the subjects in which the candidate has passed belong to only one department. In order to obtain a Higher Certificate the candidate must pass in subjects taken from at least three departments.

Candidates may enter for examination in the Common Subjects on payment of a fee of 10s. Candidates who have passed in the Common Subjects may enter for examination in the Special Subjects for the Junior Certificate on payment of a fee of 10s., and for examination in the Special Subjects for the Senior Certificate on payment of a fee of £1. Candidates may enter for examination in all the Subjects (Common and Special) for the Junior Certificate on payment of a fee of £1, and for examination in all the Subjects (Common and Special) for the Senior Certificate on payment of a fee of £1 10s. Holders of Junior Certificates of this University, or of any other University whose Certificates may be recognised by the Board, may enter for examination in the Special Subjects for the Senior Certificate on payment of a fee of £1.

Candidates for the Higher Certificate who hold a Senior Certificate, or who have passed in the subjects included under Group (a) are required to pay a fee of Two Guineas. Other candidates are required to pay Three Guineas.

Any holder of a Certificate may, on payment of a fee of ten shillings, be admitted to examination in one or more additional subjects, with the view of adding to the value of the Certificate previously obtained.

Candidates who have not been successful may reappear for examination on the following terms:—

1. Any Candidate who has failed in only one of the Common Subjects, i.e. Group (a), shall, on application in a subsequent year, be admitted to examination in that subject without payment of additional fee, and without requiring to undergo examination again in the subjects already passed.

2. Any Candidate who has failed in more than one of the Common Subjects shall, on application in a subsequent year, be admitted to examination in the whole of the Common Subjects on payment of a fee of ten shillings.

3. Any Candidate who has failed in only one of the Special Subjects, i.e. Group (b), (c), or (d), shall, on application in a subsequent year, be

admitted to examination in that subject, so as to complete the minimum requirements for a Certificate, without payment of additional fee, and to examination in any other subject or subjects on payment of a fee of ten shillings.

4. Any Candidate who has failed in more than one of the Special Subjects, but who has passed in such subjects as, with the addition of one of those in which the candidate failed, would have sufficed for a Certificate, shall, on application in a subsequent year, be admitted to examination in *that* subject without additional fee, and to examination in any other subject or subjects on payment of a fee of ten shillings.

5. Any Candidate who has failed in all the Special Subjects or in all but one of the Special Subjects selected shall, on application in a subsequent year, be admitted to examination in the subjects previously attempted, or in any three or more of them, on payment of a fee of ten shillings, and to examination in any other subject or subjects (but so as not to exceed the prescribed number), on payment of a further fee of ten shillings.

Candidates are admitted to free re-examination only once, and only in one subject, whether common or special.

Fees are not returned under any circumstances.

#### EXAMINATION OF SCHOOLS.

I. Applications to the Board for the appointment of Examiners should be made *before the 8th of April, 1893.* The subjects in which examination is sought must be submitted to the Board for approval.

The Board reserves the right of declining to entertain an application for the appointment of Examiners.

The Examiners' reports will be submitted to the Board before transmission to the Managers or Head-Masters of the schools examined.

The fee for the services of each Examiner is three guineas per day of six hours, whether spent in examining classes or reading written papers.

II. The Managers of any school may present their pupils at the Local Examinations on the following conditions :—

1. The pupils shall be arranged in at most three divisions corresponding to the three groups of Local Examination subjects. When they are arranged in three divisions, papers on the Special Subjects for the Senior Certificate will be set to the highest division; papers on the Special Subjects for the Junior Certificate to the second division; and papers on the Common Subjects to the lowest division. When they are arranged in two divisions or in one division only, the Managers shall specify the two groups or the one group of subjects in which they wish their pupils examined.

2. No Certificate will be given to the pupils thus examined.

3. A fee of 5s. shall be paid for each pupil.

A special report, stating the results obtained by each pupil in the several subjects of examination, will be sent to the Managers.

Detailed information as to the Subjects of Examination may be found in the Report of the Board for 1892 (containing also the Regulations for 1893), published by Messrs. James MacLehose & Sons, Publishers to the University, 61 St. Vincent Street, Glasgow. Price 6d., or per post, 8d.

## APPENDIX III.

## LIST OF EXTRA-ACADEMICAL LECTURERS.

List of Extra-Academical Lecturers whose lectures have been recognised by the University Court of the University of Glasgow, for the purpose of graduation in Medicine, in terms of Ordinance No. 15, Glasgow No. 2, section viii., sub-section 5 :—

2 Oct., 1867,	Stevenson M'Adam, Ph.D., Edin.,	<i>Chemistry.</i>
29 July, 1875,	Joseph Coats, M.D., Glasgow,	<i>Pathology.</i>
10 Nov., 1875,	James Dunlop, M.D., Glasgow,	<i>Surgery.</i>
1 Dec., 1875,	Dr. Thorpe, South Kensington,	<i>Chemistry.</i>
19 April, 1876,	Dr. James Gow Black, Otago,	<i>Chemistry.</i>
"	Miller Coughtrey, M.B., Otago,	<i>Anatomy.</i>
7 Nov., 1876,	Henry E. Clark, F.F.P.S.G., M.R.C.S.E., Glasgow,	<i>Anatomy.</i>
"	John Dougall, M.D., Glasgow,	<i>Materia Medica.</i>
"	Alex. Lindsay, M.D., Glasgow,	<i>Medical Jurisprudence.</i>
"	James Stirton, M.D., Glasgow,	<i>Midwifery.</i>
7 March, 1877,	Thomas M. Hocken, M.R.C.S.E., L.S.A., Lond., Otago,	<i>Clinical Surgery.</i>
	Dr. Gillies, Otago,	<i>Clinical Medicine.</i>
12 Sept., 1877,	A. M. Buchanan, M.D., Glasgow,	<i>Anatomy.</i>
"	Robert Perry, M.D., Glasgow,	<i>Clinical Medicine.</i>
"	Jas. Finlayson, M.D., Glasgow,	<i>Clinical Medicine.</i>
"	Alex. Patterson, M.D., Glasgow,	<i>Clinical Surgery.</i>
15 May, 1879,	David N. KNOX, M.B., Glasgow,	<i>Systematic Surgery.</i>
21 Dec., 1880,	A. G. Miller, M.D., F.R.C.S.E., Edinburgh,	<i>Surgery.</i>
"	Joseph Bell, M.D., Edinburgh,	<i>Clinical Surgery.</i>
"	William Craig, M.D., Edinburgh,	<i>Materia Medica and Therapeutics.</i>
"	J. O. Affleck, M.D., Edinburgh,	<i>Practice of Medicine.</i>
"	Dr. F. W. Moinet, Edinburgh,	<i>Materia Medica and Therapeutics.</i>
"	John Barlow, M.D., Glasgow,	<i>Physiology.</i>
24 May, 1881,	Samson Gemmell, M.D., Glasgow,	<i>Practice of Medicine.</i>
7 Dec., 1881,	Byron Brainwell, M.D., Edin., Hector C. Cameron, M.D., Glas-	<i>Practice of Medicine.</i>
"	gow,	<i>Clinical Surgery.</i>
"	Gavin P. Tennent, M.D., Glasgow,	<i>Clinical Medicine.</i>

26 Jan., 1882,	David C. M'Vail, M.B., Glas.,	<i>Practice of Medicine.</i>
"	James M. Milne, Ph.D., Glasgow,	<i>Chemistry.</i>
"	William L. Reid, M.D., Glasgow,	<i>Midwifery.</i>
13 Feb., 1883,	Wm. MacEwen, M.D., Glasgow,	<i>Surgery.</i>
"	David Newman, M.D., Glasgow,	<i>Pathology.</i>
"	John Glaister, M.D., Glasgow,	<i>Forensic Medicine.</i>
"	Neil Carmichael, M.D., Glasgow,	<i>Materia Medica.</i>
"	Eben. Duncan, M.D., Glasgow,	<i>Medical Jurisprudence.</i>
27 May, 1884,	Johnson Symington, M.D., Edinburgh,	<i>Anatomy.</i>
22 July, 1885,	James J. Dobbie, M.A., D.Sc., University Coll., Bangor,	<i>Chemistry.</i>
"	Reginald W. Phillips, B.A., B.Sc., University Coll., Bangor,	<i>Botany.</i>
29 Oct., 1885,	William Dittmar, Anderson's College, Glasgow,	<i>Chemistry.</i>
28 April, 1886,	A. Smithells, B.Sc., Yorkshire College, Leeds,	<i>Chemistry.</i>
4 Oct., 1887,	Claud M. Thompson, University College, Cardiff,	<i>Chemistry.</i>
"	W. Newton Parker, University College, Cardiff,	<i>Zoology.</i>
31 Oct., 1888,	Alexander Robertson, M.D., Glas.,	<i>Clinical Medicine.</i>
20 Mar., 1889,	Alexander Napier, M.D., Glas.,	<i>Materia Medica.</i>
27 Feb., 1890,	James Robertson Watson, M.A., Glasgow,	<i>Chemistry and Practical Chemistry.</i>
"	James Christie, M.D., Glasgow,	<i>Physiology.</i>
"	John Lindsay Steven, M.D., Glas.,	<i>Pathology.</i>
"	Alex. Robertson, M.D., Glasgow,	<i>Practice of Medicine.</i>
"	Philip J. White, M.B., University College, Bangor,	<i>Zoology.</i>
26 Feb., 1891,	Thomas King, Glasgow,	<i>Botany.</i>
"	A. B. Robertson, Glasgow,	<i>Chemistry.</i>
30 April, 1891,	E. E. Prince, Glasgow,	<i>Zoology.</i>
5 Jan., 1892,	B. C. A. Windle, M.D., Queen's Coll., Birmingham,	<i>Anatomy.</i>
"	F. J. Allen, M.A., M.B., C.M., Mason Science Coll., Birmingham,	<i>Physiology.</i>
"	W. A. Tilden, D.Sc., Mason Science Coll., Birmingham,	<i>Chemistry.</i>
"	T. W. Bridge, M.A., Mason Science Coll., Birmingham,	<i>Zoology.</i>
"	W. Hillhouse, M.A., Mason Science Coll., Birmingham,	<i>Botany.</i>
28 April, 1892,	James Swanson, M.A., M.B., C.M., St. Mungo's Coll., Glasgow,	<i>Botany.</i>

## APPENDIX IV.

*GLASGOW UNIVERSITY EXTENSION BOARD.*

The University has organised a scheme for the extension of University teaching, by means of local lectures and classes, upon the lines which have proved so successful in the case of the Universities of Oxford and Cambridge. Its purpose is to give, as far as possible, the advantages of University education to those whose circumstances do not permit them to attend the University. It is especially intended to meet the wants of (1) ladies, (2) clerks and other persons engaged in business, and (3) artizans of all classes. The Scheme is under the management of the following Board: Sir James King, Bart., LL.D., *Chairman*; \*Robert Gourlay, Manager, Bank of Scotland, St. Vincent Place, Glasgow, *Hon. Treasurer*; \*R. M. Wenley, M.A., D.Sc., 8 St. Albans Terrace, Glasgow, W.; *Hon. Sec.*; Professor McCall Anderson, M.D.; Professor Barr, D.Sc.; \*William Bathgate, M.A., H.M.I.S.; Walter G. Blackie, LL.D.; Professor Bower, D.Sc., F.R.S.; \*Professor Bradley, M.A.; \*J. Cleland Burns; Professor Buchanan, M.D., LL.D.; The Very Rev. Principal Caird, D.D.; \*Professor E. Caird, LL.D.; James Campbell of Tulliechewan; Professor Charteris, M.D.; William Clark; Stewart Clark of Kilnside; Professor Cleland, M.D., LL.D.; Mrs. Archibald Coats; Thomas Glen Coats; \*Archibald Craig, LL.B.; George Crichton; Alexander Crum of Thornliebank; Sir John Neilson Cuthbertson; Peter Denny, LL.D.; The Rev. Professor Dickson, D.D.; The Rev. Principal Douglas, D.D.; \*Henry Dyer, M.A., D.Sc., C.E.; Professor Ferguson, LL.D.; David Forsyth, M.A., D.Sc.; Charles Gairdner, LL.D.; Professor Gairdner, M.D., LL.D.; James Graham; Professor Grant, LL.D.; \*The Rev. David Hunter, D.D.; \*John Hutchison, LL.D.; \*Professor Jack, LL.D.; William Jolly, H.M.I.S.; Professor Lord Kelvin, LL.D., D.C.L.; William Kerr; J. H. Kerr; John Kerr, LL.D., H.M.I.S.; Professor Leishman, M.D.; \*Mrs. Lindsay; Sir James D. Marwick, LL.D.; \*Colonel Sir Donald Matheson, K.C.B.; T. A. Mathieson; Professor Moir; Donald Morrison, LL.D.; Professor Murray, B.A.; James Macdonald, LL.D.; \*The Rev. A. R. McEwen, D.D.; \*Professor McKendrick, M.D., F.R.S.; Professor Sir G. H. B. Macleod, M.D., LL.D.; Miss Grace Paterson; R. W. Cochran-Patrick of Woodside, LL.D.; \*Professor Ramsay, LL.D.; The Rev. Professor Robertson, D.D.; Thomas Russell of Ascog; Professor Simpson, M.D.; \*William Smart, M.A.; J. Parker Smith of Jordanhill, M.P.; Sheriff Spens, LL.D.; Alexander Stephen; \*The Rev. Professor Stewart, D.D.; The Rev. Professor Story, D.D.; Professor Moody Stuart; Professor Veitch, LL.D.; \*The Rev. John Watt, D.D.; \*Mrs. R. M. Wenley; \*Professor Young, M.D.

Those marked \* constitute the Executive.

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A Prospectus giving an account of the movement and of the mode of working it, together with a list of lecturers and subjects, may be had (post free) on application to Mr. Wenley, the Secretary, to whom communications by local committees and all persons interested should be addressed.

## APPENDIX V.

*UNIVERSITY SOCIETIES.*

## GLASGOW UNIVERSITY UNION.

At a Meeting of Students and Graduates, held on the 14th day of February, 1885, it was unanimously resolved to establish a Glasgow University Union. A sum sufficient to erect a building for this purpose having been offered to the Senate by JOHN M'INTYRE, Esq., M.D., Odiham, Hampshire, and the Senate having accepted this gift, Articles of Constitution were drawn up by a Committee of Students and Graduates, and received the approval of the Senate, the Donor, and of the Students' Representative Council.

*Objects.*—The objects of the Union are to maintain Reading and Writing Rooms, to hold Debates, to promote social intercourse among the Members, and to form a centre to which the various University Societies may be affiliated.

*Membership.*—The Members of the Union are Ordinary Members or Life Members.

Ordinary membership of the Union is open to all matriculated Students and all former Students of the University, and all Medical Students of Glasgow whose names are enrolled in the Extra-mural Album of the University, on payment of an Annual Subscription of Five Shillings.

All matriculated Students and former Students of the University may, on payment of the sum of Three Pounds Three Shillings, become Life Members of the Union.

*President*—Fred. A. Macquisten, B.L.

*Vice-President*—Joseph Coats, M.D.

*Hon. Secretary*—Joshua Ferguson, M.A.

*Hon. Treasurer*—M. P. Fraser, LL.B.

*Assistant Treasurer*—P. Taylor Thomson, M.A.

*Librarian*—John Brownlee, M.A.

*Board of Directors*—The Office-bearers, and C. O. Hawthorne, M.B., C.M.; John Paterson, M.A.; James Aiken, M.A.; John White, M.A.

## THEOLOGICAL SOCIETY.

The object of the Society is to discuss, by means of essays and debates, theological and ecclesiastical questions. The membership of the Society is open to all students attending the Divinity Hall of the University; but all matriculated students in faculties other than the Faculty of Divinity are eligible for extraordinary membership.

*Honorary President*—The Rev. Colin Campbell, D.D.

*President*—Stevenson M'Nab, M.A.

*Vice-President*—William Thomson, M.A.

*Secretary*—David Young, Flemington, Strathaven.

*Treasurer*—John H. Pagan, M.A.

*Committee.*

R. J. Paul, M.A.

Matthew Mair.

H. Y. Arnott, M.A.

D. M. Stewart.

(With two students of the first year in Divinity to be elected in November.)

MEDICO-CHIRURGICAL SOCIETY.

The principal business of the Society is the prosecution of Medical Research by Dissertations and Debates.

All Medical Students and Medical Men of one year's standing are eligible for Ordinary Membership, which may be obtained on payment of the Annual Subscription of One Shilling.

Medical Students, if Members of the Union, may enrol as Members of the Society, free of charge.

Meetings of the Society are held in the Union Buildings every Friday Evening during the Winter Session, at 7 o'clock.

*Office-Bearers for 1891-92.*

*Honorary President*—William Macewen, M.D., LL.D.

*President*—P. O. W. Browne, M.B., C.M.

*Vice-Presidents.*

*Senior*—John Lindsay, M.A.

*Junior*—J. F. R. Gairdner.

*Secretaries.*

*Corresponding*—A. A. Warden, M.A.

*Minute*—D. Fraser Harris, B.Sc.

*Treasurer*—John Selkirk, M.A.

*Librarian*—F. H. Waddy.

*Committee.*

James Carslaw, M.A.

William Lang.

M. Manicol, M.A.

J. F. Gemmill, M.A.

W. S. Cook.

J. S. M'Kendrick.

C. B. Hanson.

J. S. Wilson.

*Session 1892-93.*

*Honorary President*—Sir Joseph Lister, Bart., LL.D., D.C.L.

*President*—John Lindsay, M.A.

*Vice-Presidents.*

*Senior*—J. F. R. Gairdner.

*Junior*—A. A. Warden, M.A.

*Secretaries.*

*Corresponding*—John Selkirk, M.A., The Union.

*Minute*—F. H. Waddy.

*Treasurer*—W. H. Lang.

*Librarian*—J. F. Gemmill, M.A.

*Committee.*

D. F. Harris, B.Sc., 4th year.	A. Laughton, 3rd year.
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J. W. Findlay, 4th "	J. E. Wilson, 2nd "
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J. C. Robertson, 3rd "	Arch. Young, 2nd "
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(And two Students of the first year in Medicine to be elected in November.)

Books are given out at weekly meetings, or during the week by written application.

DIALECTIC SOCIETY.

The Society meets weekly during the Session for the discussion of Literary, Philosophical, and Political subjects.

All Students of the University are eligible for Ordinary Membership, which is obtained by payment of the Annual Subscription of One Shilling.

*Honorary President.*

W. T. Gairdner, M.D., LL.D., Professor of Practice of Medicine.

*President*—Joshua Ferguson, M.A.

*Vice-Presidents.*

*Senior*—R. S. Horne.      *Junior*—J. W. Cleland.

*Secretaries.*

*Senior*—J. M' E. Manford, M.A., 29 Buckingham Terrace, Hillhead.

*Junior*—J. G. Spens, M.A.

*Treasurer*—James Aiken, M.A.

*Macer*—James Ferguson.

*General Board.*

John Brownlee, M.A.	D. S. Jerdan.
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A. Charlton.	J. H. Pagan, M.A.
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J. F. Gemmill, M.A.	J. B. Paterson.
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W. P. Hanks.	P. Taylor Thomson, M.A.
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GLASGOW UNIVERSITY ORIENTAL SOCIETY.

(Instituted 1880.)

The object of the Society is the study of the languages and literatures of the East.

All Students of Oriental languages are eligible for election to the membership.

The Society meets twice a year—in the months of April and October.

*Office-Bearers.*

*President*—Rev. Professor James Robertson, D.D.

*Vice-President*—Mr. R. B. Pattie, B.D.

*Corresponding Secretary*—Rev. James Young, B.D.

*Recording Secretary*—Rev. A. Cameron Watson, B.D.

*Treasurer*—Rev. Robert Gardner, B.D.

## GLASGOW UNIVERSITY ALEXANDRIAN SOCIETY.

This Society was formed in January, 1887. It has for its chief object the discussion of questions connected with the Literatures of Ancient Greece and Rome. The membership is open to Members of the University. Any distinguished Scholar or any Member of the University of five years' standing, or any person officially connected with the University, is eligible for Honorary Membership.

*Office-Bearers.**Honorary Presidents.*

Professor G. G. Ramsay, LL.D.

Professor G. G. A. Murray, B.A.

*President*—D. Rankin, M.A.

*Vice-Presidents*—R. M. Burrows, B.A., and J. Dick.

*Secretary*—W. H. Low, 17 Elgin Terrace, Dowlanhill, Glasgow.

*Treasurer*—W. R. Gourlay.

*Committee.*

J. P. Wilson, M.A.

E. Scott.

W. Gow.

J. F. McFadyen.

## GLASGOW UNIVERSITY PHILOSOPHICAL SOCIETY.

(Instituted 1887.)

The Society was instituted for the promotion of Philosophical Discussion and Investigation, and meets fortnightly on Tuesday Evenings at Half-past Seven during the Winter Session. The Society is affiliated to the University Union. Ordinary Membership is open to all Students who have attended or who are attending Philosophical Classes in any University. The annual subscription is half a-crown, but to members of the University Union who join the Society otherwise than by selecting it as one of the two societies open to them without subscription, the annual subscription is one shilling.

*Office-Bearers for Session 1892-93.**Honorary Presidents.*

Principal Caird,

Professor Veitch,

Professor Edward Caird,

Professor A. C. Bradley,

Professor Henry Jones, University of St. Andrews.

*Presidents.*

Robert Bulloch Douglas, M.A. | J. H. Maclean, M.A.

*Secretary*—G. L. Pagan.

*Treasurer*—J. M. Connor.

*Members of Committee.*

G. G. Alexander.

John White.

R. S. Clazy.

W. P. Hanks.

R. S. Horne.

(And two others to be elected in November.)

## GLASGOW UNIVERSITY PHILOMATHIC SOCIETY.

The object of this Society is the promotion of the study of English Literature by the reading of selected works in prose and poetry during Summer, and the discussion of these during the Session. Its meetings are held every alternate Saturday throughout the Winter Session at Seven. All Members of the University are eligible for membership, which may be obtained through the Union, or by the payment of the Annual Subscription of One Shilling. The Works to be treated next Session are—Carlyle's French Revolution, Emerson's Essays, George Eliot's Adam Bede and Daniel Deronda, Shelley's Revolt of Islam, Prometheus Unbound, and Adonais, the poetical works of Dante, G. Rossetti, and Browning's Ring and the Book.

*Office-Bearers.*

*Honorary-President*—Professor Bradley, M.A.

*President*—John A. Dron, M.A.

*Vice-President*—Alex. M. Hamilton.

*Secretary*—John M. Connor, 23 Albert Road, Crosshill.

*Treasurer*—Gavin L. Pagan.

*Committee.*

Nicol Macnicol, M.A.		John M. Manford, M.A.
		David S. Merrow, M.A.

## GLASGOW UNIVERSITY SCIENCE ASSOCIATION.

The principal aims of this Association are:—(1) To protect and further the interests of Science students, (2) to encourage interest in scientific subjects by means of discussions and lectures. All Science Students and Graduates in Science of Glasgow University are eligible for membership.

*Office-Bearers for 1892-93.**Honorary President.*

Lord Kelvin, LL.D., D.C.L., Pres. R.S.

*President*—James Rankin.

*Vice-Presidents.*

Robert Main, B.Sc.		J. H. Gray, B.Sc.
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*Secretary*—Archd. N. M'Lellan.

*Treasurer*—J. C. Robertson, M.A.

*Executive Committee.*

John Brownlee, M.A.		Wm. Muirhead.
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W. H. Lang. | D. G. Taylor.

J. Marshall. | H. R. Brownlee.

W. C. Anderson. | Robert Kennedy

J. Gemmill, M.A.		J. B. Henderson.
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## GLASGOW UNIVERSITY NATURAL HISTORY SOCIETY.

The principal business of the Society is the promotion of the study of Natural History by organising Field Excursions and Demonstrations.

Members of the Science Association are alone eligible for membership, but any present or past Students of the University are eligible for associateship; the Annual Subscription for both Members and Associates is One Shilling.

During the Summer Session weekly Excursions are made ; Demonstrations or Lectures are given in the Winter Session.

*Office-Bearers for 1892-93.*

*Honorary-President*—Professor John Young, M.D.

*President*—J. G. Cormack, M.A., B.Sc.

*Vice-President*—James Rankine.

*Secretary*—William H. Lang.

*Treasurer*—James C. Robertson, M.A.

*Committee.*

Messrs. Buchanan, J. Gemmill, M.A., M'Kendrick, M'Lellan,  
Archibald Young

GLASGOW UNIVERSITY CHEMICAL SOCIETY.

The objects of the Society are the promotion of the study of Chemistry, and the diffusion of Chemical information amongst its Members. Past and present Students of the University are eligible for membership. Meetings are held monthly during the Winter Session.

*Honorary President*—Professor Ferguson, LL.D.

*President*—J. Stanley Muir, B.Sc.

*Vice-President*—Edward Rodger.

*Secretary and Treasurer*—W. Carrick Anderson, Jun.

*Committee.*

H. Y. Glen.  
R. Main, B.Sc.

M. A. Parker.  
W. Zinkeisen, B.Sc., Ph.D.

GLASGOW UNIVERSITY ORCHESTRAL SOCIETY.

This Society was formed in January, 1885, at a general meeting of Students, presided over by Wm. Galbraith Miller, Esq. The Society has for its object the promotion of the study and practice of Instrumental Music among Members of the University. The membership is open to present and former Students of the University. Others, however, may be admitted by special resolution of the Committee.

*Patrons. (1888-89.)*

The Very Rev. Principal Caird.

Professor Sir William Thomson. / Professor Young.

..	Grant.	..	Stewart.
..	Nichol.	..	Ferguson.
..	Gairdner.	..	Jebb.
..	Ramsay.	..	M'Kendrick.
..	Veitch.	..	Robertson.
..	Edward Caird.	..	Jack.

W. Galbraith Miller, Esq., Advocate.

J. T. Bottomley, Esq., F.R.S.

*Office-Bearers. (1888-89.)*

*Honorary President.*

Professor Young.

*President*—Professor Ferguson.

*Secretary and Treasurer*—George Guthrie, M.A., LL.B.,  
226 West George Street.

*Librarian*—Robert G. Reid.

*General Committee*.

W. G. Miller, Esq.	V. Zinkeisen, Jun.
Charles E. Beckett, M.A., LL.B.	Robert G. Reid.
<i>Conductor</i> —Mr. Montague Smith.	

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UNITED MUSICAL SOCIETY OF THE UNIVERSITY OF GLASGOW AND  
QUEEN MARGARET COLLEGE.

This Society, which is the result of the union of the Choral Societies of the University of Glasgow and of Queen Margaret College, has as its object the cultivation by its members of music generally, but more especially of Choral singing.

The United Society met for the first time, by permission of the Senate, in the Divinity Hall, on Tuesday, March 18th, 1890.

*Office-Bearers for Session 1892-93.*

*President*—Professor Bower.

*Secretaries*—{ Miss Lang.  
Mr. J. S. Buchanan.

*Treasurers*—{ Miss Galloway.  
W. F. Somerville, M.A., M.D.

*Conductor*—Mr. Montague Smith.

*Other Members of Executive Committee*—

Miss L. P. Macara.

Mrs. L. Young.

Professor Young.

GLASGOW UNIVERSITY MISSIONARY SOCIETY.

(Instituted 1821.)

*Office-Bearers for 1892-93.*

*Honorary President*—Leonard Gow, Esq.

*President*—R. J. Paul, M.A.

*Vice-President*—Duncan C. Kerr.

*Superintendents of Home Missions*—{ Alexander Allison.  
William Shannon.

*Secretary*—W. S. Brownlee, M.A., West Manse, Rutherglen.

*Assistant Secretary*—Thomas Kearney.

*Librarian*—J. P. Wilson, M.A.

*Treasurers*—{ H. Y. Arnott, M.A.  
J. H. Pagan, M.A.

*Members of Committee.*

*From Theology*—

J. B. Mackenzie, M.A.	From Arts—
W. B. Macnab, M.A.	Gavin L. Pagan.
J. Aiken, M.A.	T. Wardrop.
D. Young.	J. Hamilton.
D. Macdonald, M.A.	<i>From Law</i> —
J. M'Gilchrist, B.A.	<i>From Medicine</i> —

## GLASGOW UNIVERSITY CHRISTIAN ASSOCIATION.

The object of this Society is the promotion of religious life and fellowship in the University.

In connection with the Association there are held—Weekly Prayer Meetings, occasional Sabbath Evening Services, Bible Readings, etc.

*Office-Bearers.*

*Hon. President*—D. Yellowlees, M.D., LL.D.

*Hon. Vice-President*—John C. Young, M.B., C.M.

*President*—John Macara, M.A.

*Vice-President*—Samuel D. Cowan, M.A.

*Secretary*—T. Wardrop, Students' Settlement, 10 Possil Road.

*Assist.-Secretary*—James W. Anderson.

*Treasurer*—James McCash, Jun.

*Assist.-Treasurer*—Edward Reid.

*Committee.*

Wm. Boyd.	John Guy.
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Thos. Colligan.	J. D. Love.
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H. B. Currie.	John Middleton.
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## GLASGOW UNIVERSITY TOTAL ABSTINENCE SOCIETY.

The object of the Society, which this year reaches its jubilee, is to unite the abstaining students in the University, and to promote the cause of Total Abstinence. This work it accomplishes among the students by means of lectures, sermons, etc., while, outside the University, it carries on a successful Temperance Mission Work.

*Office-Bearers for 1892-93.*

*Honorary President*—Professor G. G. A. Murray, B.A.

*Honorary Vice-Presidents.*

Geo. A. Gibson, M.A.	R. M. Burrows, B.A.
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Rev. William Swan, B.D.	John E. Black, M.A.
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*President*—Jas. Hamilton.

*Vice-President*—David N. Lennox.

*Secretary*—Wm. Boyd, 10 Possil Road.

*Treasurer*—John Middleton.

*Committee.*

A. Allison.	A. T. M'Ewan.
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M. Fairgrieve.	J. M'Neil.
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J. Hamilton.	G. T. Maclean.
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J. M'Leary.	Malcolm Sinclair.
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(With two others to be appointed in November.)

## GLASGOW UNIVERSITY ATHLETIC CLUB.

*Honorary President*—Professor Bower, D.Sc., F.R.S.

*President*—C. F. P. Fraser, M.A.

*Vice-President*—M. T. Stack.

*Hon. Secretary*—A. D. D. Crawford, 183 West George St., Glasgow.

*Hon. Treasurer*—Warren Crosbie, B.L., 153 St. Vincent St., Glasgow.

*General Committee (including Office-Bearers).*

M. P. Fraser, LL.B.	W. K. Ralston.
N. A. Macleod.	George Lamb, M.B., C.M.
A. Webster.	F. R. Stewart.
J. Orr.	Robert Hutcheson, LL.B.
A. D. Cuthbert.	

*Sub-Committees.*

<i>Rugby Football.</i>	<i>Tennis.</i>
R. M. Donaldson.	R. J. Marshall.
A. D. Cuthbert.	C. J. Higginbotham.
C. F. P. Fraser, M.A.	F. C. Barker.
W. A. Macdonald.	W. Ralston.
J. Orr, Students' Union, Hon. Sec.	R. J. Marshall.
<i>Golf.</i>	<i>Track.</i>
J. Stewart Carrick.	C. F. P. Fraser, M.A.
W. N. Sime.	N. A. Macleod.
M. P. Fraser, LL.B.	Robert Hutcheson, LL.B.
Hugh Cowan.	A. D. D. Crawford, 183 W. George Street, Glasgow.
Robert Hutcheson, LL.B., Secretary.	
<i>Cricket.</i>	<i>J. Patrick.</i>
William Irwin.	J. Patrick.
A. Webster.	F. Hill, Students' Union,
J. M. Smith.	Hon. Sec.

The object of the Club is the promotion of all forms of Athletic exercise. The Membership is confined to present and past Students of the University. The affairs of the Club are managed by a General Committee and Sub-Committees, one for each form of Athletic exercise. The General Committee are entrusted with the management of all matters concerning the Field, Pavilion, Annual Games, &c. The Sub-Committees are entrusted with the arrangements for each special form of exercise, subject always to the approval of the General Committee. The Annual Subscription to the Club is 2s. 6d., with a further Subscription for each form of exercise. None but Members of the Club are entitled to play any game under charge of any Sub-Committee.

The Annual General Meeting is held on the first Friday in November. Special Meetings are held when required.

## GLASGOW UNIVERSITY UNITED PRESBYTERIAN STUDENTS' SOCIETY.

*Honorary President*—Rev. John C. Lambert, B.D.

*President*—Andrew M'Lachlan.

*Vice-President*—Laurence M. Gibson.

*Secretary*—J. C. Scott, 9 N. Claremont Street, Glasgow.

*Treasurer*—A. W. Blue.

*Committee.*

Samuel Scott.	Robert Wiseman.
W. R. Gourlay.	H. Whitelaw.
(And another to be elected in November.)	

This Society meets every Saturday at 10 a.m., in the Hall of Woodlands Road U.P. Church.

The objects of the Society are the promotion of social intercourse and the furtherance of moral and intellectual culture among its members.

All Students attending the University in any Faculty, who are connected with the United Presbyterian Church, are eligible for membership, which is obtained by the payment of the annual subscription of One Shilling.

## GLASGOW UNIVERSITY RIFLE CLUB.

*President*—The Very Rev. Principal Caird, D.D., LL.D.

*Vice-Presidents*—Professor Murray and Lieutenant-Colonel Reid.

*Team-Captain*—A. H. Donald, 172 St. Vincent Street, Glasgow  
(Captain 1st Lanark R.V.).

*Vice-Captain*—T. Eaton Robinson (Lieutenant 1st Lanark R.V.).

*Secretary*—Robert Carswell, 124 Bath Street, Glasgow  
(Lieutenant, 1st Lanark R.V.).

*Treasurer*—A. Tillie (Captain 4th V.B.S.R.), 82 West Regent Street, Glasgow.

*Committee*—Thomas Stout, M.A., B.L. (Captain 1st Lanark R.V.), John Coats (Lieutenant 3rd V.B.H.L.I.), Robert Kyle, R. P. Purdie, and R. W. Sadler.

Its objects shall be to promote rifle shooting among students and ex-students of Glasgow University, and to provide the means of having Glasgow University well represented in the annual match for the Inter-University Trophy.

All students and ex-students of Glasgow University shall be eligible as Patrons and Ordinary Members. All persons officially connected with the University shall be eligible as Patrons. Both classes of Members may take part in the competitions.

All persons, eligible as above, subscribing 10s. or upwards annually, shall be *ipso facto* Patrons. The subscription for Ordinary Members shall be 5s. for ex-students, and 2s. 6d. for present students, all payable by 1st March annually. These annual subscriptions may be commuted by a present payment of £3 3s., entitling the person paying to become a Life Patron.

## THE UNIVERSITY CLUB, GLASGOW, 202 BATH STREET.

The Club is instituted for the association of gentlemen connected with the universities of the United Kingdom or with foreign universities.

The following persons are eligible for admission into the Club as ordinary members: (1) Graduates and *alumni* of any recognized university in the United Kingdom or abroad; (2) Professors, and persons holding any honorary office in connection with a university.

The entry-money is £3 5s., and the annual subscription for a member having a residence or place of business within five miles of Glasgow Royal Exchange, is £2 2s., and for a member having neither a residence nor place of business within that distance, £1 1s.

*Committee for 1892.*

*Chairman*—Joseph Coats, M.D.

W. J. Fleming, M.D.	James Ness, LL.B.
Professor Gairdner.	R. Ogilvie, LL.D., H.M.I.S.
Gerald G. Henderson, D.Sc.	Professor Ramsay.
John Henderson, M.A.	James D. Robertson.
Professor Jack.	Professor Robertson.
John G. Kerr, M.A.	David Ross, LL.D.
Rev. J. W. King, M.A.	F. G. Tulloch.
James Lang.	James Wallace, M.D.
Charles J. McLean.	D. Yellowlees, M.D., LL.D.
Robert MacLehose, M.A.	Wm. Zinkeisen, B.Sc.

*Secretary and Treasurer*—Thomas M. Stewart, LL.B., 173 St. Vincent Street, Glasgow.

Full particulars as to membership, etc., may be obtained on application to the Secretary at his address.

GLASGOW UNIVERSITY CLUB, LONDON.

The objects of the Club are to maintain good fellowship among its members, and to promote the interests of the University of Glasgow and of higher education in connection therewith.

Graduates, and all who are or have been students of the University of Glasgow, or officially connected with it, are eligible for membership.

*Office-Bearers for 1892-93.*

*President*—Edmund L. Lushington, Esq., D.C.L., LL.D.

*Vice-Presidents*—

General Sir Archibald Alison, Bart., G.C.B., LL.D.	Mr. Justice Stirling.
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## APPENDIX VI.

*ORDINANCES MADE BY THE UNIVERSITIES  
COMMISSIONERS UNDER THE UNIVERSITIES  
(SCOTLAND) ACT, 1889.*

*These Ordinances were laid before Parliament for the statutory period,  
and are now (29th June, 1892) awaiting the approval of Her Majesty  
in Council.*

I. ORDINANCE NO. 11. [GENERAL, NO. 6—REGULATIONS FOR DEGREES  
IN ARTS.]

*At Edinburgh, the third day of February, Eighteen hundred and ninety-  
two years.*

WHEREAS by the Universities (Scotland) Act, 1889, the Commissioners under the said Act are empowered by section 14, sub-section 5, to regulate the management and ordering of the Universities, and the manner and conditions in and under which students shall be admitted thereto, and in particular (b) the course of study and manner of teaching, the length of the academical session or sessions, the manner of examination, the qualifications, appointment, and number of examiners, and the amount and manner of their remuneration; (d) the granting of degrees, and the institution of new degrees; (e) the institution of an examination either on entering the University, or as a preliminary condition of entering on the course of study for a degree in any Faculty, or of both such examinations; and by the said section 14, sub-section 16, to repeal or modify any Ordinance made under the provisions of the Universities (Scotland) Act, 1858.

Therefore the Commissioners under the first mentioned Act statute and ordain as follows:—

ACADEMICAL YEAR.

I. (1) The Academical year in each University shall commence on the first day of October. The classes shall meet for the winter session (which shall include not less than twenty teaching weeks) on such day thereafter as the Senatus of each University shall determine; and shall close not later than the tenth day of the following April.

(2) The University Court of each University shall institute a summer session in such of the subjects or branches of subjects qualifying for graduation in Arts as may be determined by the said Court after consultation with the Senatus. Such session shall commence on such day in May as the Senatus of each University shall determine, and shall include ten teaching weeks at least. The classes shall be conducted by the

Professors, or by Lecturers appointed under Ordinance, General, No. 10 (Regulations as to Assistants and Lecturers). Provided that the teaching of classes during the summer session shall be optional to any Professor whose commission is dated before the approval of this Ordinance by Her Majesty in Council, unless such option is barred by the terms of his commission or of any existing Ordinance.

II. The Curriculum for the degree of Master of Arts (M.A.) shall extend over not less than three winter sessions, or two winter sessions and three summer sessions.

#### PRELIMINARY EXAMINATION.

III. (1) Before entering on the Curriculum each Student shall pass a Preliminary Examination in the following subjects:—

1. English.
2. Latin or Greek.
3. Mathematics.
4. One of the following:—Latin or Greek (if not already taken), French, German, Italian, Dynamics.

(2) The examination must be passed in the matters and on the standards hereinafter defined; but there shall be a higher and lower standard in Latin, Greek, and Mathematics.

Candidates must pass on the higher standard in at least one of these three subjects, and may pass on the lower standard in either or both of the remaining two; subject always to the conditions relative to attendance contained in Section IV. hereof.

(3) English shall include Grammar and Composition, and the outlines of Geography and British History, and the standard shall not be lower than that presently adopted for the Higher Grade Leaving Certificate of the Scotch Education Department.

(4) Latin and Greek shall comprise grammatical questions, translation into English from Latin or Greek authors not previously prescribed, and translation of plain passages or easy sentences from English into Latin or Greek. The higher standard shall not be lower than that presently adopted in the examination for a Curriculum of three sessions, or for the Higher Grade Leaving Certificate of the Scotch Education Department, and the lower standard shall not be lower than that presently adopted for the Lower Grade Leaving Certificate of the said Department.

(5) French, German, and Italian shall comprise grammatical, literary, and easy philological questions, translation into English from French, German, or Italian authors not previously prescribed, and translation from English into French, German, or Italian; and the standard shall not be lower than that presently adopted for the Higher Grade Leaving Certificate of the Scotch Education Department.

(6) Mathematics on the lower standard shall comprise—(1) Arithmetic, including Vulgar and Decimal Fractions, Proportion, Percentage, Square Root, Simple Interest; (2) Algebra, including Fractions, Factors, Square Root, Equations of the First Degree, Simultaneous Equations of the First Degree, Easy Quadratic Equations, Problems leading to the above Equations; (3) Geometry—Euclid, Books I., II., and III. (or their equivalents), with easy deductions. Demonstrations other than Euclid's

will be accepted if they assume no propositions which in Euclid's order are subsequent to the proposition under consideration.

(7) Mathematics on the higher standard shall, in addition, comprise Euclid, Books IV., VI., and the first twenty-one propositions of Book XI. (or their equivalents), with deductions, Quadratic Equations, Trigonometry to the Solution of Triangles inclusive, and the use of Logarithmic Tables.

(8) Dynamics shall mean the Elementary Statics and Kinetics of Solids, Liquids, and Gases.

(9) A candidate shall be obliged to pass in all the required subjects at one or not more than two examinations; provided that he may repeat his second examination as often as may be necessary, being examined on each occasion in all the subjects in which he failed, or which he did not profess, at his first.

For the purpose of this sub-section, a candidate's first examination shall be held to be the first at which he passes in any of the subjects professed.

**IV.** (1) Attendance on any class shall not qualify for graduation, unless the whole Preliminary Examination has been passed.

(2) Attendance on a class in any language included in the Preliminary Examination [or in Mathematics],<sup>1</sup> shall not qualify for graduation, unless the candidate, before entering the class, has passed the Preliminary Examination in that subject, and on the higher standard where a double standard is provided. He may, for that purpose, attend any Preliminary Examination held during the course of his study, taking only the paper set in that subject; provided always that the provisions of the sub-section immediately preceding shall have been satisfied.

(3) Attendance on a class in any language not included in the Preliminary Examination shall not qualify for graduation, unless the candidate has previously passed an examination in that language on a standard as nearly as possible equivalent to the higher standard of the languages included in the Preliminary Examination.

**V.** (1) The Preliminary Examination shall be held at each University twice in each year, under such regulations as the Senatus, with the approval of the University Court, shall from time to time determine, and shall be conducted in writing.

(2) The Joint Board of Examiners to be appointed under the provisions of Ordinance No. 8 (Regulations as to Examinations), shall have power to accept the Higher Grade Leaving Certificate of the Scotch Education Department in any subject as an equivalent for the Preliminary Examination in that subject; and to accept the Lower Grade Leaving Certificate of the said Department as an equivalent for the Preliminary Examination on the lower standard in Latin, Greek, and Mathematics; provided they are satisfied that the standard of the examination, at which the said certificates were granted, is not lower than that required by this Ordinance.

(3) The Joint Board of Examiners shall have power to determine what examinations, if any, other than those for the Leaving Certificates of the Scotch Education Department may be accepted as equivalent to the Preliminary Examination in whole or in part, provided they are satisfied that such other Examinations are in fact equivalent thereto.

<sup>1</sup> The House of Lords presented an address to Her Majesty in Council praying that Her approval might be withheld from the words "or in Mathematics."

## ORDINARY DEGREE.

VI. Candidates for the ordinary degree of Master of Arts may follow the Curriculum and take their degree in the subjects hitherto recognised for graduation, as provided by the regulations contained in Ordinances Nos. 12, 14, 18, and 69 of the Commissioners under the Universities (Scotland) Act, 1858, subject always to the preceding provisions of this Ordinance; or they may vary the Curriculum for graduation under the regulations contained in the immediately succeeding sections.

VII. (1) Candidates shall attend full courses in at least seven subjects, and shall be examined on these subjects.

(2) Of these subjects four must be (a) Latin or Greek; (b) English or a Modern Language or History; (c) Logic and Metaphysics, or Moral Philosophy; (d) Mathematics or Natural Philosophy.

(3) The remaining subjects may be selected by the candidate from the Departments specified in Section IX. of this Ordinance, under the following condition:—That the whole subjects taken shall include either (a) both Latin and Greek, or (b) both Logic and Moral Philosophy, or (c) any two of the following three subjects,—Mathematics, Natural Philosophy, and Chemistry.

VIII. (1) Each of the subjects must be studied in a full course of not less than one hundred meetings of the class on separate days, except in cases where the Senatus, with the approval of the University Court, shall have sanctioned, as qualifying for graduation, half courses of not less than fifty meetings on separate days; or where the Senatus, with the approval of the said Court, shall, having regard to the nature of the subject, sanction full courses of less than one hundred or of less than fifty meetings respectively.

(2) Two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

(3) Where a subject is taught in a practical class, as well as in a systematic class, the Senatus, with the approval of the University Court, shall regulate the course of study and determine the relative proportion of lectures and laboratory or practical work.

IX. The Departments of study for graduation in Arts in each University shall, if adequate instruction is provided, include the following subjects, with such additions or modifications in any University as may hereafter be made by Ordinance of the University Court:—

1. *Language and Literature.*

Latin.	German.	Hebrew.
Greek.	Italian.	Arabic or Syriac.
English.	Sanskrit.	Celtic.
French.		

2. *Mental Philosophy.*

Logic and Metaphysics.	Education (Theory, History, and Art of).
Moral Philosophy.	
Political Economy.	Philosophy of Law.

3. *Science.*

Mathematics.	Zoology.
Natural Philosophy.	Botany.
Astronomy.	Geology.
Chemistry.	

4. *History and Law.*

History.	Constitutional Law and History.
Archæology and Art (History of).	Roman Law. Public Law.

X. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the ordinary degree of Master of Arts on payment of the fees required.

## DEGREE WITH HONOURS.

XI. (1) The degree of Master of Arts may be taken with Honours in any of the following Groups, in which Honours Classes shall have been established in at least two subjects:—

- (a) Classics (*i.e.*, Latin and Greek, with optional subjects such as Comparative Philology, Ancient Philosophy, and Classical Archæology).
- (b) Mental Philosophy.
- (c) Mathematics and Natural Philosophy.
- (d) Semitic Languages.
- (e) Indian Languages.
- (f) English (Language, Literature, and British History).
- (g) Modern Languages and Literature.
- (h) History.

(2) Every Candidate shall take up at least five subjects. Two of these subjects, under separate Professors or Lecturers, must be selected from the Candidate's Honours Group; and the five subjects shall include one from each of the Departments of Language and Literature, Mental Philosophy, and Science, set forth in Section IX. of this Ordinance.

(3) Every Candidate shall attend seven Classes, taking two Classes (one of which shall be an Honours Class) in each of his Honours subjects.

(4) A Candidate who has obtained Honours in any one Group, may, before graduating, present himself again for examination in a second Honours Group. In such a case, he shall not be required to attend more than two additional Classes, which shall be Honours Classes, in the second Group.

(5) The examination in the subjects comprised in the Candidate's Honours Group shall be of a higher standard than that required for the ordinary degree of Master of Arts. In his other subjects the standard shall be that required for the ordinary degree.

(6) The Senatus shall, subject to the provisions of Sections XVI. and XX. of this Ordinance, from time to time determine what subjects shall be comprised in each Group, what subjects may be taken in half courses, and in which Group they may be taken : Provided that no new Group shall be instituted except by Ordinance of the University Court.

(7) The provisions of Section VIII. of this Ordinance shall apply to Candidates for Honours ; but, in their case, not fewer than fifty meetings, on separate days, extending over an entire winter session, shall constitute a full course for an Honours Class; and not fewer than twenty-five meetings on separate days, extending over half a winter session, or an entire summer session, shall constitute a half course.

XII. (1) Every Candidate shall include Latin, or Greek, either in his Honours Group or as one of the subjects in which the standard of examination is that required for the ordinary degree of Master of Arts.

(2) Greek shall be compulsory for candidates for Honours in Mental Philosophy.

(3) Candidates for Honours in English, or Modern Languages and Literature, or History (Groups *f*, *g*, *h*, of Section XI. hereof), shall include within the whole subjects taken for their degree (*a*) Logic and Metaphysics or Moral Philosophy and (*b*) Mathematics or Natural Philosophy.

XIII. (1) The whole examination in the candidate's Honours Group must be taken at one time, and the whole examination necessary for graduation with Honours must be taken within five years from the date of the candidate's first matriculation after having passed the Preliminary Examination, unless that period shall be extended by the Senatus on special cause shown ; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the extension.

(2) Candidates for Honours may be examined, at any time during their Curriculum, in the three subjects in which the standard of examination is that required for the ordinary degree of Master of Arts.

XIV. (1) A candidate who has passed the examinations necessary for the ordinary degree of Master of Arts, but who has not yet graduated, may present himself for Honours within five years from the date of his first matriculation after having passed the Preliminary Examination, and shall not be required to attend further classes :—subject always to the provisions of Section XII. hereof.

(2) No one shall be allowed to present himself a second time as a candidate for the degree of Master of Arts with Honours, who, upon examination, has failed to obtain Honours.

(3) A candidate shall be held to have presented himself who has notified his name for Examination in accordance with the University regulations. But it shall be in the power of the Senatus to relax this rule on special cause shown ; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XV. (1) In each Group there shall be three Grades of Honours, to be denominated respectively the First, Second, and Third Class. The names of the candidates entitled to Honours in each class shall be arranged in alphabetical order.

(2) For the degree of Master of Arts with Honours a Diploma shall be given setting forth the subjects in which he has taken Honours.

#### BOARDS OF STUDIES.

XVI. The Senatus of each University shall from time to time institute Boards of Studies corresponding as nearly as may be to the Departments of Study enumerated in Section IX. of this Ordinance.

XVII. Each Board of Studies shall consist of such Members of the Senatus and Lecturers in the University as the Senatus may from time to time select, and the Senatus shall appoint one of the Members of the Board to be Convener thereof.

XVIII. Before the end of each winter session each Professor and Lecturer in the said Departments of study shall submit to the proper Board of Studies for its approval a syllabus of the subjects and books proposed for the work of his class for the next Academical year. As soon as such approval has been given, the syllabus shall be transmitted to the Faculty of Arts for its consideration. The syllabus, with such observations as the Faculty of Arts may see fit to make thereon, shall then be transmitted to the Senatus for its sanction.

XIX. (1) Before the end of each winter session each Board of Studies shall prepare a scheme defining for the Academical year next but one following, the classes which shall be deemed to be Honours classes, and the subjects and courses of reading for Honours in its Department, and shall report the same to the Faculty of Arts for its consideration. The scheme, with such observations as the Faculty of Arts may see fit to make thereon, shall then be transmitted to the Senatus for its sanction.

(2) Each Board shall in like manner make recommendations through the Faculty of Arts to the Senatus in regard to the half-courses which may be sanctioned under the provisions of this Ordinance, and the lectures which may be given on special subjects.

XX. The Principal and the Dean of the Faculty of Arts shall be *ex officio* Members of each Board of Studies. The Convener shall preside, and, in his absence, each meeting shall appoint its own Chairman, and every Chairman shall have a deliberative, and, in cases of equality, a casting vote.

#### GENERAL.

XXI. In the case of a student whose native language is other than European, the Senatus may, at the Preliminary Examination, accept such language as a substitute for a modern European language. The Senatus may also in such a case accept as an alternative to Latin or Greek any other classical language, such as Sanskrit or Arabic, subject always to the provisions of Section IV. Sub-section 3 hereof.

XXII. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class as qualifying for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint: and in every such case

the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XXIII. The examination in all the languages in the Curriculum shall, as far as possible, be on the same standard in Examinations for the same degree, and shall in all cases test the candidate's knowledge of the history and literature of the several countries.

XXIV. A candidate for the degree of Master of Arts shall not be deemed to have attended a class as part of the Curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XXV. A student, who has given attendance at classes recognised as qualifying for graduation during one or more sessions in any one or more of the Scottish Universities, may complete his Curriculum by giving attendance during the remainder of his course in another Scottish University, and may proceed to a degree in the latter University in the same way, in all respects, as if the previous part of his Curriculum had been taken therein: Provided always that every such student shall be bound to produce, to the satisfaction of the Senatus of the latter University, certificates of his having passed the Preliminary Examination, and of his attendance at the former University or Universities, and shall be examined in all the subjects necessary for a degree of Master of Arts by the Examiners of the University in which he completes his Curriculum, and in which alone he shall be allowed to graduate; and that no such student shall be admitted to a degree in any University unless he has given attendance in such University during the last winter session of his Curriculum, and one other winter session or two summer sessions.

XXVI. A candidate for the degree of Master of Arts with Honours, who has failed to be placed in any class, may, provided that in the opinion of the Examiners he has given evidence of sufficient attainments in any subject for the ordinary degree of Master of Arts, receive from them a certificate of having passed in such subject, which shall count *pro tanto* as part of the examination required under the regulations for the ordinary degree of Master of Arts.

XXVII. The degree of Master of Arts shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XXVIII. A student who, at the time when this Ordinance shall come into operation, shall have commenced his course of study with a view to graduation in Arts in any of the Scottish Universities under the regulations in force at the time in such University, may complete his course and become a candidate for the degree of Master of Arts, with or without Honours, in conformity with such regulations. And any such student who has passed the examination hitherto required for admission to a Curriculum of three sessions shall, if he desire to come under the regulations of this Ordinance, be exempted from the Preliminary Examination herein required.

XXIX. Students may attend any classes without having passed the

Preliminary Examination within the meaning of this Ordinance, but such attendance shall not qualify for graduation.

XXX. It shall be competent for the University Court in each University to discontinue the Junior Classes, or Middle Classes, where such exist, in Latin, Greek, and Mathematics, when, in the opinion of the Court, the provision for Secondary Education in schools throughout the country is sufficient to render such classes no longer necessary.

XXXI. Ordinances numbered 12, 14, 18, and 69 of the Commissioners under the Universities (Scotland) Act, 1858, as altered under the provisions of the said Act, are hereby repealed, in so far as they are inconsistent with this Ordinance.

XXXII. This Ordinance shall come into force at the beginning of the first Academical year after the date on which it is approved by Her Majesty in Council.

In witness whereof these presents are sealed with the seal of the Commission.

A. S. KINNEAR, *Chairman.*

**II. ORDINANCE NO. 12. [GENERAL, NO. 7—REGULATIONS FOR  
DEGREES IN SCIENCE.]**

*At Edinburgh, the third day of February, Eighteen hundred and ninety-two years.*

WHEREAS, etc.

I. Two degrees in Science may be conferred by each of the Universities of Scotland, viz., Bachelor of Science (B.Sc.) and Doctor of Science (D.Sc.).

These degrees may be given in Pure Science and in Applied Science.

**Degree in Pure Science.**

II. Every candidate for the degree of Bachelor of Science must pass the Preliminary Examination prescribed by Ordinance, General, No. 6 (Regulations for Degrees in Arts); and the conditions with respect thereto imposed by the said Ordinance shall be applicable in all respects to this Ordinance except as follows: (1) French or German may be substituted for Latin or Greek; (2) Mathematics shall be passed on the higher standard; (3) a degree in Arts (not being a *degree honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University, specially recognised for the purpose by the University Court after consultation with the Senatus, shall exempt from the Preliminary Examination.

III. (1) Candidates for the degree of Bachelor of Science must in the course of not less than three Academical years, within the meaning of the Ordinance hereinbefore first mentioned, attend at least seven courses of instruction, in subjects prescribed for examination under Sections VIII. and IX. of this Ordinance.

(2) Three of these courses must be in subjects prescribed for the

First Science Examination under Section VIII.; and four must be in subjects prescribed for the Final Science Examination under Section IX.

IV. (1) Four of the seven courses must be taken in the University in which the degree is conferred.

(2) Three may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science :—Provided that the fees for attendance at an approved Institution or under a recognised teacher in the Town in which the University is situated shall not be less than the fees exigible for the corresponding courses in the University.

V. All candidates, not matriculated students of a University, availing themselves of the permission to attend lectures at approved Institutions or by recognised teachers in the Town in which the University is situated, shall at the commencement of each year of such attendance enrol their names in a book to be kept for that purpose in the University, paying a fee of the same amount as the Matriculation Fee paid by students of the University, and having in respect of such payment a right to the use of the Library of the University.

VI. (1) It shall be the duty of the Senatus to determine from time to time the number of meetings of which a full course in any subject shall consist, and to report its determination to the University Court for its approval.

(2) The Senatus, with the approval of the University Court, may sanction half courses of not less than half the number of meetings which constitute a full course in the subject ; but two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

(3) It shall be the duty of the Professor and Lecturer annually at the end of each winter session to submit to the Senatus a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus shall transmit such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(4) It shall be the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Faculty of Science to be hereafter constituted in each University, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next Academical Year. The Faculty of Science shall transmit such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

Provided that until the Faculty of Science shall be duly constituted, the syllabus shall be submitted by the Professors and Lecturers directly to the Senatus.

VII. The provisions of the preceding section shall not apply to approved Institutions or recognised teachers outside the Town in which the University is situated ; but the University Court shall not

grant or continue recognition to any Institutions or teachers unless they shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the Universities of Scotland.

VIII. (1) There shall be a First Science Examination in the three following subjects - viz., (1) Mathematics or Biology (*i.e.*, Zoology and Botany); (2) Natural Philosophy; (3) Chemistry.

(2) The examination in all these subjects shall be the same as the examination in these subjects for the ordinary degree of Master of Arts.

(3) Candidates may present themselves in any one or more of these subjects at any examination held after they have attended a full course in the subject or subjects professed.

IX. (1) There shall be a Final Science Examination on a Higher Standard, in any three or more of the following subjects :—

- |   |  |
|---|--|
| 1. Mathematics.                           | 6. Physiology.                             |
| 2. Natural Philosophy.                    | 7. Geology, including Mineralogy.          |
| 3. Astronomy.                             | 8. Zoology, including Comparative Anatomy. |
| 4. Chemistry.                             |  |
| 5. Human Anatomy, including Anthropology. | 9. Botany, including Vegetable Physiology. |

(2) The standard of this examination shall be as nearly as possible equivalent to that of the examination for the degree of Master of Arts with Honours, where the subjects are different; and where the subjects are the same the examination shall be identical.

(3) A subject already taken under the preceding section for the First Science Examination may be taken also under this section for the Final Science Examination.

(4) Candidates presenting themselves for this examination must have attended four full courses of higher instruction, including practical or laboratory work, in the subjects professed, subject always to the provisions of Sections VI. and VII. hereof.

(5) The Final Science Examination shall be taken not less than one year after the candidate has passed the First Science Examination.

X. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint, and in every case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XI. A candidate for the degree of Bachelor of Science shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XII. It shall be competent to the Examiners for the degree of Bachelor of Science to report that a candidate has passed with special distinction in one or more of the subjects professed by him: and in such

a case a diploma shall be given setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.

#### DEGREE IN APPLIED SCIENCE.

XIII. Degrees in Applied Science may be instituted and conferred according to regulations to be laid down in special Ordinances applicable to each University by the Commissioners under the Universities (Scotland) Act, 1889; or after the expiry of their powers by the University Court in each University.

XIV. The provisions of Sections II. to VIII. of this Ordinance inclusive, in so far as they relate to the Preliminary and First Science Examinations, shall be applicable in all respects to degrees in Applied Science instituted as aforesaid, except where special provision is made to the contrary in the special Ordinances aforesaid.

#### DOCTORATE OF SCIENCE.

XV. Graduates of any University who have held the degree of Bachelor of Science for a term of five years, may offer themselves for the degree of Doctor of Science in the same University.

XVI. A candidate for the degree of Doctor of Science shall present a thesis or a published memoir or work to be approved by the Senatus (on the recommendation of the Faculty of Science when duly constituted): Provided that, if required by the Senatus, the candidate shall also be bound to pass such an examination as may from time to time be determined.

The thesis shall be a record of original research undertaken by the candidate, and shall be accompanied by a declaration, signed by him, that the work has been done and the thesis composed by himself.

#### GENERAL.

XVII. A student who, at the time when this Ordinance shall come into operation, shall have completed a part of his course of study with a view to graduation in Science in any of the Scottish Universities under regulations in force at the time in such University, and shall thereafter complete his course of study and pass the necessary examinations in conformity with such regulations, or with the provisions of this Ordinance, may become a candidate for the degree of Bachelor of Science.

XVIII. The degrees of Bachelor and Doctor of Science shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XIX. This Ordinance shall come into force at the beginning of the First Academical Year after the date on which it is approved by Her Majesty in Council.

In witness whereof these presents are sealed with the seal of the Commission.

A. S. KINNEAR, *Chairman.*

**III. ORDINANCE NO. 13. [GENERAL, NO. 8—REGULATIONS AS TO EXAMINATIONS.]**

*At Edinburgh, the ninth day of February, Eighteen hundred and ninety-two years.*

WHEREAS, etc.

**PRELIMINARY EXAMINATIONS.**

I. A Board of Examiners shall be constituted, hereinafter called the Joint Board, consisting of representatives of each University to be elected in the manner hereinafter provided.

II. The University Court of each University shall annually appoint as Examiners such number of Professors or Lecturers in the Faculty of Arts in that University, and such additional Examiners as may be deemed necessary. The Examiners in each University shall examine the candidates who present themselves for the Preliminary Examinations in Arts, Science, and Medicine at that University; and shall prepare, set, and mark the examination papers: Provided that the Examinations shall be under the control and supervision, as hereinafter provided, of the Joint Board.

In the event of a Professor or Lecturer declining to undertake the duty of examining under this section, it shall be in the power of the University Court to appoint another Professor or Lecturer or an additional Examiner in his place.

III. The Examiners in each University, as soon as they have marked the answers of the candidates, shall transmit through the Senatus to the Joint Board the printed examination papers and the written answers, with copies of the list of candidates, showing the marks assigned to each, and the candidates whom they propose to adjudge successful.

IV. The Joint Board shall consist of four Professors or Lecturers and eight additional Examiners; one Professor or Lecturer and two additional Examiners being appointed in January of each year by the University Court of each University from among the Examiners appointed under Section II. hereof.

Subject to the provisions of Section VII. hereof, the Joint Board shall hold office from the 1st day of February to the 31st day of January in the succeeding year. The members of the Joint Board so appointed shall represent the different subjects of examination, according to the following scheme of rotation (*see page 490*) :—

## SCHEME OF ROTATION FOR SECTION IV. OF ORDINANCE NO. 13 (page 489).

<i>University.</i>	<i>First Year.</i>	<i>Second Year.</i>	<i>Third Year.</i>	<i>Fourth Year.</i>
ST. ANDREWS,	English (Professor). Classics (Additional Examiner). Mathematics and Dynamics (Additional Examiner). (Additional Examiner).	Classics (Professor). Mathematics and Dynamics (Additional Examiner). Modern Languages (Additional Examiner). English (Additional Examiner). (Additional Examiner).	Mathematics and Dynamics (Professor). Modern Languages (Additional Examiner). English (Additional Examiner). Classics (Additional Examiner).	Modern Languages (Professor or Lecturer). English (Additional Examiner). Classics (Additional Examiner). (Additional Examiner).
GLASGOW,	English (Additional Examiner). Classics (Additional Examiner). Modern Languages (Professor or Lecturer). (Additional Examiner).	Classics (Additional Examiner). Mathematics and Dynamics (Additional Examiner). English (Professor). English (Additional Examiner).	Mathematics and Dynamics (Additional Examiner). Modern Languages (Professor or Lecturer). English (Additional Examiner). Classics (Additional Examiner).	Modern Languages (Additional Examiner). English (Additional Examiner). Classics (Professor or Lecturer). (Additional Examiner).
ABERDEEN,	English (Additional Examiner). Mathematics and Dynamics (Professor). Modern Languages (Additional Examiner). (Additional Examiner).	Classics (Additional Examiner). Modern Languages (Professor or Lecturer). English (Additional Examiner).	Mathematics and Dynamics (Additional Examiner). Modern Languages (Additional Examiner). English (Additional Examiner).	Modern Languages (Additional Examiner). English (Additional Examiner). Classics (Additional Examiner). (Additional Examiner).
EDINBURGH,	Classics (Professor). Mathematics and Dynamics (Additional Examiner). Modern Languages (Additional Examiner). (Additional Examiner).	Mathematics and Dynamics (Professor). Modern Languages (Additional Examiner). English (Additional Examiner).	Modern Languages (Professor or Lecturer). English (Additional Examiner). Classics (Additional Examiner). (Additional Examiner).	English (Professor). Classics (Additional Examiner). Mathematics and Dynamics (Additional Examiner).

- V. (1) The Joint Board shall issue from time to time to the Examiners of each University such general directions as to the character of the examination papers to be set, and the method of assigning marks, as may best secure an adequate and uniform standard.
- (2) The Joint Board shall also receive, as provided in Section III. hereof, from the Examiners in each University the examination papers and answers of the candidates, and shall, after consideration of such papers and answers as they may deem necessary, accept or correct the results arrived at by the Examiners in the several Universities in accordance with what they shall deem to be an adequate standard.
- (3) At the earliest possible date after receiving the examination papers and answers the Joint Board shall report to each Faculty, for whose Preliminary Examination candidates have appeared, the results of the examination of these candidates, and each Faculty shall forthwith publish a list of candidates reported to it as having passed the Examination.

VI. If at an Examination at any University the standard of the questions set for examination shall in their opinion be either too high or too low, the Joint Board shall have power to require the Examiners in that University to submit to them the papers which it is proposed to set at the next Preliminary Examination, and to make such amendments thereon as they may think necessary; but in every such case sufficient notice shall be given to the Senatus of the University on which such demand is made.

VII. Subject to the approval by Her Majesty in Council of Ordinances General No. 6—[Regulations for Degrees in Arts], General No. 7—[Regulations for Degrees in Science], Glasgow No. 1—[Regulations for Degrees in Medicine], Aberdeen No. 1—[Regulations for Degrees in Medicine], and Edinburgh No. 1—[Regulations for Degrees in Medicine], and of this Ordinance, on or before the first day of July, 1892:—

Within two weeks thereafter, the University Courts shall complete the election of the Joint Board, and, as soon as may be, the Joint Board first elected shall meet at Edinburgh to issue directions as provided in Section V., sub-section (1), hereof, and to fix the date of the first Preliminary Examinations to be held under this Ordinance. The Joint Board first elected shall hold a second meeting, at such time as may be most convenient, for the purposes of Section V., sub-sections (2) and (3). The Joint Board first elected shall thereafter hold office until the 31st day of the second January after its appointment.

Failing the approval by Her Majesty in Council of the Ordinances aforesaid, at the date aforesaid, the Preliminary Examination for the winter session next ensuing in each University shall be conducted under such regulations as the University Court may think fit.

VIII. In the event of the Ordinances aforesaid receiving the approval of Her Majesty in Council at any date subsequent to the first day of July, 1892, the University Courts shall, within six weeks after the Ordinances have received the approval of Her Majesty in Council,

complete the election of the Joint Board ; provided that in computing the said period the months of August and September shall not be counted, or any part thereof.

As soon as may be thereafter, the Joint Board first elected shall meet at Edinburgh to issue directions as provided in Section V., sub-section (1) hereof, and to fix the date of the first Preliminary Examinations to be held under this Ordinance. The Joint Board first elected shall hold a second meeting at such time as may be most convenient for the purposes of Section V., sub-sections (2) and (3) hereof. The Joint Board first elected shall thereafter hold office until the thirty-first day of the second January after its appointment.

In every subsequent year the Joint Board shall meet twice annually in Spring and in Autumn for the purposes of Section V. hereof.

At any such meeting the majority of the Board shall have power to summon a special meeting for the purposes of Section VI. hereof.

IX. The Joint Board shall at each of the said meetings in Spring and Autumn fix the day on which the Preliminary Examination in each University shall begin ; and shall also prescribe the order in which the several subjects shall be taken.

X. The Joint Board shall sit at each University in rotation, and in the following order :—Edinburgh, Glasgow, Aberdeen, St. Andrews.

XI. The Principal of the University at which the Joint Board sits shall, when present, act as Chairman for the time, and the Secretary of the University Court of that University shall be Convener of the Board and custodian of all documents ; neither shall be members of the Board, but the Chairman shall have a casting, but not a deliberative vote. The Convener shall, at the termination of his term of office, transmit to his successor in office the documents belonging to the Joint Board. In the absence of the Principal the Joint Board shall elect its own Chairman, who shall be a member of the Board, and shall have a deliberative and also a casting vote.

XII. In each University each candidate, before presenting himself for any Preliminary Examination, shall pay to the General Fund of the University a fee of half a guinea.

XIII. Notwithstanding anything contained in Ordinances, Edinburgh No. 1—[Regulations for Degrees in Medicine]; Glasgow No. 1—[Regulations for Degrees in Medicine]; Aberdeen No. 1—[Regulations for Degrees in Medicine], candidates who present themselves for the Preliminary Examination for medical students in any of these Universities at the beginning of the winter session of 1892, shall be entitled to all the exemptions in respect of previous examinations by other bodies which have been already published in the Calendars of the several Universities.

#### EXAMINATIONS FOR GRADUATION IN ARTS.

XIV. The Examiners for graduation in Arts in each University shall be the Professors in that University whose subjects qualify for graduation in Arts, together with such Lecturers in the University, and such additional Examiners, to be appointed by the University Court, as the University Court shall deem necessary. The examinations shall be

conducted in writing, and also orally if thought necessary, under regulations framed by the Senatus, subject to the approval of the University Court.

#### EXAMINATIONS FOR GRADUATION IN SCIENCE.

XV. The Examiners for graduation in Science in each University shall be the Professors in that University, whose subjects qualify for graduation in Science, together with such Lecturers in the University and such additional Examiners to be appointed by the University Court as the University Court shall deem necessary. The examinations shall be conducted in writing, and also orally if thought necessary, under regulations framed by the Senatus, subject to the approval of the University Court.

#### EXAMINATIONS FOR GRADUATION IN MEDICINE.

XVI. The Examiners for graduation in Medicine in each University shall be the Professors in that University, whose subjects qualify for graduation in Medicine, together with such Lecturers in the University and such additional Examiners to be appointed by the University Court as the University Court shall deem necessary : provided that the Court shall make such provisions as will ensure that every candidate shall be examined in each subject by at least two Examiners, one of whom shall not be a Professor or Lecturer in the University. The examinations shall be conducted in writing and orally and also clinically, when the nature of the subject admits, under regulations framed by the Senatus subject to the approval of the University Court.

#### GENERAL.]

XVII. In the case of a candidate at a Preliminary Examination who is permitted to offer himself for examination in any language not included in the Preliminary Examination, each University shall make special arrangements for the examination of its own candidates.

XVIII. In appointing the additional Examiners under this Ordinance the University Court of each University shall make the appointments for such period as will secure that all the Examiners shall not vacate their office at the same time, provided that no Examiner shall be appointed for a longer period than four years, and that no person who has held the office of Examiner for a period of three or four years shall be eligible for reappointment to the office of Examiner in the same University until he has ceased to hold the office of Examiner in such University for not less than one year.

XIX. No person shall be appointed an additional Examiner under the provisions of this Ordinance who is a Professor, Lecturer, or University Assistant or Demonstrator in any Scottish University. The appointment of any additional Examiner during the currency of his term of office to a Professorship, Lectureship, or of office as University Assistant or Demonstrator in any Scottish University shall be held to vacate his office of Examiner. In the event of a vacancy occurring through death, resignation, or disqualification in the office of a member of the Joint Board, or of an Examiner or additional Examiner, occurring

otherwise than by expiration of his term of office, the vacancy shall be filled up, subject to the provisions hereof, by the University Court who appointed the person vacating office, and the person appointed in his room shall be appointed for the remainder of such term only.

XX. Each of the additional Examiners appointed under Sections II., XIV., XV., and XVI. hereof shall receive such remuneration as the University Court in each University shall determine.

Each University shall contribute to the expenses of the Joint Board in proportion to the number of candidates who present themselves for examination at that University; and the remuneration paid to the members of the Board shall be fixed by arrangement between the University Courts of the four Universities.

XXI. Ordinances numbered 5, 8, 14, 15, 16, 19, and 23 of the Commissioners under the Universities (Scotland) Act, 1858, as altered under the provisions of the said Act, so far as they are inconsistent with this Ordinance, are hereby repealed.

In witness whereof these presents are sealed with the seal of the Commission.

A. S. KINNEAR, *Chairman.*

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**IV. ORDINANCE No. 14. [GLASGOW, NO. 1—REGULATIONS FOR DEGREES IN MEDICINE.]**

*At Edinburgh, the third day of February, Eighteen hundred and ninety-two years.*

WHEREAS, etc.

**GRADUATION IN MEDICINE AND SURGERY.**

I. Four degrees in Medicine and Surgery shall be conferred by the University of Glasgow, viz., Bachelor of Medicine (M.B.), Bachelor of Surgery (Ch.B.), Doctor of Medicine (M.D.), and Master of Surgery (Ch.M.). The degree of Bachelor of Surgery shall not be conferred on any person who does not at the same time obtain the degree of Bachelor of Medicine, and the degree of Bachelor of Medicine shall not be conferred on any person who does not at the same time obtain the degree of Bachelor of Surgery.

II. Subject to regulations to be made from time to time by the University Court, the University may also confer diplomas in Special Branches of Medical and Surgical Practice on graduates of the University in Medicine and Surgery.

III. Before commencing his medical studies, each student shall pass a preliminary examination in (1) English, (2) Latin, (3) Elementary Mathematics, and (4) Greek or French or German: provided always that, in the case of a candidate whose native language is not English, an examination in the native language of the candidate may be substituted for one in either French or German, and an examination in any other classical language for one in Latin or Greek.

IV. The extent and standard of the preliminary examination shall be determined by the Joint Board of Examiners constituted under Ordinance, General, No. 8—[Regulations as to Examinations]—in accordance with the terms of that Ordinance.

V. The preliminary examination shall be conducted in accordance with the provisions of Ordinance, General, No. 8—[Regulations as to Examinations]—and, subject to the provisions of the immediately succeeding section hereof, the entire examination shall be passed at one and the same time, except in the case of students who, prior to the date at which this Ordinance shall come into operation, have passed a portion of the preliminary examination of the University, or of a preliminary examination recognised by the University.

VI. A degree in Arts, or in Science (not being a degree *honoris causa tantum*), in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court, shall exempt from the preliminary examination; and the Joint Board of Examiners appointed under the provisions of Ordinance, General, No. 8—[Regulations as to Examinations]—shall have power to determine what examinations, other than those for the degrees hereinbefore mentioned, shall be accepted, either in whole or in part, in place of the preliminary examination.

#### PROFESSIONAL EDUCATION.

VII. Candidates shall be admitted to the degree of Bachelor of Medicine and Bachelor of Surgery only after they have fulfilled the following conditions:—

1. The candidate must have been engaged in medical study for at least five years.
2. In each of the first four years the candidate must have attended at least two courses of instruction, in one or more of the subjects of study specified in Sub-section 4 hereof—each course extending over a session of not less than five months, either continuous or divided into two terms; or, alternatively, one such course, along with two courses, each extending over a session of not less than two and a half months.
3. During the fifth or final year the candidate shall be engaged in clinical study for at least nine months at one or more of such public hospitals or dispensaries, British or Foreign, as may be recognised for the purpose by the University Court.
4. The candidate must, during his curriculum, have attended a course or courses of instruction in each of the following subjects of study, including such examinations as may be prescribed in the various classes, viz.:—

- |                                 |   |   |
|---------------------------------|---|---|
| 1. ANATOMY, - - - - -           | } | During a course of not less than five months.         |
| 2. PRACTICAL ANATOMY, - - - - - |   | During two courses of not less than five months each. |

- |   |  |
|---|--|
| 3. CHEMISTRY,<br>4. MATERIA MEDICA and THERAPEUTICS,<br>5. PHYSIOLOGY or INSTITUTES OF MEDICINE,<br>6. PRACTICE OF MEDICINE,<br>7. SURGERY,<br>8. MIDWIFERY and the DISEASES peculiar to WOMEN and INFANTS. Two courses of Midwifery, of three months each, provided different departments of Obstetric Medicine be taught in each of the courses, shall be reckoned equivalent to a course of not less than five months,<br>9. PATHOLOGY,<br><br>10. PRACTICAL CHEMISTRY,<br>11. PHYSICS (including the DYNAMICS OF SOLIDS, LIQUIDS, and GASES, and the RUDIMENTS OF SOUND, HEAT, LIGHT, and ELECTRICITY),<br>12. ELEMENTARY BOTANY,<br>13. ELEMENTARY ZOOLOGY,<br>14. PRACTICAL PHYSIOLOGY,<br>15. PRACTICAL PATHOLOGY,<br>16. MEDICAL JURISPRUDENCE and PUBLIC HEALTH, | During courses of not less than five months.<br><br>During courses of not less than two and a half months. |
|---|--|

Provided always, in so far as regards the University of Glasgow, that—

(a) It shall be the duty of the Senatus to determine from time to time the number of meetings of which such courses shall consist, and in what cases two half courses shall be deemed equivalent to a full course; and to report the determination to the University Court for its approval.

(b) It shall be the duty of the Professors and Lecturers to submit to the Senatus annually at the end of the winter session a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus shall transmit such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(c) The University Court shall not grant or continue recognition to any institutions or teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the Universities of Scotland.

5. The candidate must have attended for at least three years the Medical and Surgical Practice of a General Hospital at Glasgow or elsewhere, which accommodates not fewer than eighty patients, and possesses a distinct staff of physicians and surgeons, and is recognised for the purpose by the University Court.

6. The candidate must have attended Clinical Surgery during a course or courses extending over not less than nine months. These courses may be conducted by the Professor of Clinical Surgery, or by Professors or Lecturers appointed for the purpose by the University Court, or by the ordinary surgeons of a general hospital defined and recognised as hereinbefore provided, and shall consist of regular instruction at the bedside, along with Clinical Lectures.
7. The candidate must have attended Clinical Medicine during a course or courses extending over not less than nine months. These courses may be conducted by Professors of the University, or by Lecturers appointed for the purpose by the University Court, or by the ordinary physicians of a general hospital defined and recognised as hereinbefore provided, and shall consist of regular instruction at the bedside, along with Clinical Lectures.
8. The candidate must have attended a course of instruction in Mental Diseases of such duration, and so apportioned between lectures, demonstrations, and clinical instruction, as the Senatus, with the approval of the University Court, may from time to time determine.
9. The candidate must have attended a course of twenty-five meetings on Practical Pharmacy in a University or recognised School of Medicine, or have dispensed drugs for a period of three months in an hospital or dispensary, or in an establishment recognised by the Pharmaceutical Society.
10. The candidate must have attended, for at least six months, by apprenticeship or otherwise, the out-practice of an hospital, or the practice of a dispensary, or of a physician or surgeon, or of a member of the London or Dublin Society of Apothecaries. He must have acted as clerk in the medical and dresser in the surgical wards of a public hospital; and must also have availed himself, to such an extent as may be required by the Senatus, with the approval of the University Court, of opportunities of studying, at an hospital or dispensary, *Post-mortem* Examinations, Fevers, Diseases of Children, Ophthalmology, or such other special departments as may from time to time be determined.
11. The candidate must have attended, under the superintendence of a registered medical practitioner, twelve cases of labour, or such additional number as the Senatus, with the sanction of the University Court, may from time to time determine; or have attended for three months the practice of a lying-in hospital, or of the maternity department of a general hospital or other public charitable institution, and have conducted personally six, or such an additional number of cases of labour as the Senatus, with the approval of the University Court, may from time to time determine.
12. The candidate must have been properly instructed in Vaccination at a Public Vaccination Station, by a Public Vaccinator, authorised by the proper Government Authority to grant Certificates of Proficiency in Vaccination.

13. No candidate for a degree shall be deemed to have attended a class as part of the Curriculum necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

VIII. With respect to the Places and Institutions at which the studies of the Candidate may be prosecuted, the following Regulations shall have effect:—

1. Two of the five years of medical study must be spent in the University of Glasgow, each year of study including always the attendances specified in Section VI., Sub-section 2.
2. The remaining three years may be spent in any University of the United Kingdom, or in any Indian, Colonial, or Foreign University recognised for the purpose by the University Court, or in such Medical Schools or under such Teachers as may be recognised for the purpose by the University Court, each year of study during the first four years including always the attendances specified in Section VII., Sub-section 2.
3. Of the subjects of study specified in Section VII., Sub-section 4, not less than eight must be taken in the University of Glasgow, or (subject always to the provisions as to attendance contained in the immediately preceding sub-sections) in some other University of the United Kingdom, or in some Foreign or Colonial University entitled to confer the Degree of Doctor of Medicine recognised for the purpose by the University Court, or in a College incorporated with, or affiliated to a University entitled to confer the Degree of Doctor of Medicine recognised for the purpose by the University Court: Provided always that where in any of said subjects of study two or more courses are required, the taking of one of those courses shall constitute a taking of the subject for the purpose of this sub-section.
4. The remainder of such subjects of study may (subject always as aforesaid) be taken in such Medical Schools or under such Teachers as may be recognised for the purpose by the University Court.
5. All Candidates, not Matriculated Students of the University, availing themselves of the permission to attend the Lectures of Extra-Academical Teachers in Glasgow, must, at the commencement of each year of such attendance, enrol their names in a book to be kept in the University for that purpose, paying a Fee of the same amount as the Matriculation Fee paid by Students of the University, and having, in respect of such payment, a right to the use of the Library of the University.
6. The Fee for attendance, for purposes of graduation, on the courses of instruction of recognised Extra-Academical Teachers in Glasgow, shall be not less than the amount exigible for the corresponding courses in the University.
7. The University Court shall not recognise as qualifying for examination in any of the subjects specified in Section VII., Sub-section 4, the class of any teacher who is at the time a teacher of

more than one of the said subjects, except in those cases where Professors in the University are at liberty to teach two subjects:—Provided always that a Professor or other teacher in any endowed public College or Institution, who by the terms of his appointment is required to teach more than one subject of Medical Study therein, may be recognised under sub-section 2 of this section, as a teacher of any one of the subjects which he teaches.

8. A teacher, attendance on whose course of instruction shall, before the date of the approval of this Ordinance by Her Majesty in Council, have been recognised for the purposes of graduation in the University, shall not require to obtain a new recognition from the University Court; and attendance on the course of instruction of every such teacher may continue to be recognised as heretofore.
9. It shall be in the power of the University Court, if it shall see cause, at any time to withdraw or suspend any recognition which it may have granted.

IX. In the University of Glasgow it shall be the duty of the Professors of the subjects specified in Section VII., Sub-section 4 hereof (except Practical Anatomy and such other subjects as the Senatus, with the approval of the University Court, may from time to time determine), so to conduct the courses that Students may receive instruction sufficient for graduation in any one of the said subjects by attendance on one course of five or six months, or of two and a half or three months, as the case may be.

X. If any candidate shall, before presenting himself for his Preliminary Examination, have attended in any University of the United Kingdom, or in any University or Institution specially approved, or under any Teacher specially recognised for the purpose by the University Court, a course or courses of instruction in Physics, Chemistry, Botany, or Zoology, equivalent in the judgment of the Senatus to the qualifying course in the same subject in the University of Glasgow, such attendance shall (notwithstanding anything hereinbefore ordained) be held as entitling him to be examined in these subjects; and if the candidate shall have attended such course or courses in each of the said subjects, he shall be held to have completed his first year of Medical Study: Provided always that the evidence of such attendance at such equivalent course or courses shall be presented to the Senatus at the time when the candidate presents himself for his Preliminary Examination; and the Senatus shall, if satisfied, grant a certificate to that effect.

#### PROFESSIONAL EXAMINATION FOR THE DEGREES OF BACHELOR OF MEDICINE AND BACHELOR OF SURGERY.

XI. Each candidate shall be examined both in writing and orally, and also clinically where the nature of the subject admits, in the following divisions, viz.:—*First*, in Botany, Zoology, Physics, and Chemistry; *Second*, in Anatomy, Physiology, and Materia Medica and Therapeutics; *Third*, in Pathology and Medical Jurisprudence and Public Health;

*Fourth, in Surgery and Clinical Surgery, Practice of Medicine and Clinical Medicine, and Midwifery.*

In subjects which admit of practical instruction, the examination shall be such as to test the practical acquirements of the candidate.

Provided always that if a candidate have obtained in a University of the United Kingdom, or other University specially recognised for the purpose by the University Court, a Degree in Science or in Arts, granted in either case after a course of study and an examination in Botany, Zoology, Physics, and Chemistry, he shall be held to have passed his examinations in the said subjects.

XII. Candidates who profess themselves ready to submit to an examination in the subjects comprised in the first division, viz.:—Botany, Zoology, Physics, and Chemistry, may be admitted to examination in all or any two of these subjects at any examination held after they have attended a full course in each of the subjects professed.

XIII. Candidates who have passed their examinations in the subjects comprised in the first division may be admitted to examination in the second division at the end of the third winter session.

Provided that candidates who so desire may postpone their examination in Materia Medica and Therapeutics until the close of the summer session following.

XIV. Candidates who have passed their examinations in the subjects comprised in the first and second divisions may be admitted to examination in the third division at the end of the fourth winter session.

Provided that candidates who so desire may postpone their examination in Medical Jurisprudence and Public Health until the close of the summer session following.

XV. Candidates who have passed their examinations in the subjects comprised in the first, second, and third divisions may be admitted to examination in the fourth or final division, when they have completed the fifth year of study.

XVI. If any candidate at these examinations be found unqualified in one or more subjects he shall not again be admitted to examination unless he has pursued his medical studies for such time, and subject to such conditions, as the Faculty of Medicine may prescribe.

XVII. If any candidate at these examinations be found to have passed in one or more subjects with sufficient merit, he shall not be liable to re-examination in such subject or subjects, although he may have been found unqualified in a subject or subjects comprised in the same division as hereinbefore specified.

XVIII. Every candidate must deliver, on or before such day as the Senatus may from time to time determine, to the Dean of the Faculty of Medicine, a declaration, in his own handwriting, that he has completed his twenty-first year, or that he will have completed it on or before the day of graduation, and that he will not be, on the day of graduation, under articles of apprenticeship to any surgeon or other master.

XIX. After the candidate has satisfied the Examiners, the Dean of the Faculty of Medicine shall lay the proceedings before the Senatus,

by whose authority the candidate shall be admitted, on such day as the Senatus may from time to time appoint, to the Degrees of Bachelor of Medicine and Bachelor of Surgery, on payment of the required fees.

XX. Candidates for graduation shall produce evidence of their having conformed to the Regulations which were in force at the time they commenced their Medical Studies, except in so far as is provided in Section XXV. hereof.

#### PROFESSIONAL EXAMINATION FOR THE DEGREE OF DOCTOR OF MEDICINE.

XXI. 1. Subject to the conditions hereinafter specified, the Degree of Doctor of Medicine shall be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Glasgow, and is of the age of twenty-four years or upwards, and has produced a certificate of having been engaged subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery for at least one year in attendance in the Medical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Military or Naval Medical Services, or for at least two years in Practice other than Practice restricted to Surgery.

2. Each candidate for the Degree of Doctor of Medicine shall be required to pass an examination in Clinical Medicine and in such of its special departments as the Senatus, with the approval of the University Court, by Regulations framed from time to time, shall determine : and he may present himself for examination in Clinical Medicine at any period of examination subsequent to one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery.
3. Each candidate for the Degree of Doctor of Medicine shall submit for the approval of the Faculty of Medicine a Thesis on any branch of knowledge comprised in the second, third, or fourth examinations for the Degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of study after having received those Degrees, excepting subjects which are exclusively Surgical ; and the Thesis, accompanied by a declaration signed by the candidate, that the work has been done and the Thesis composed by himself, shall be lodged with the Dean of the Faculty of Medicine on or before a date to be fixed by the Senatus.
4. A Bachelor of Medicine and Bachelor of Surgery, who produces to the Senatus satisfactory evidence of his intention of entering within twelve months after obtaining such degrees on the practice of his profession in a British Possession or Colony, or in a foreign Country, may, under Regulations to be framed by the Senatus, be admitted to the examination in Clinical Medicine at any period of examination after he has received such Degrees ; but the Degree of Doctor of Medicine shall not be conferred on him unless he shall produce a certificate that, subsequently to having received the Degrees of Bachelor of Medicine and

Bachelor of Surgery, he has been engaged for at least one year in attendance in the Medical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval or Military Medical Services, or for at least two years in Practice which has not been exclusively surgical, and unless his Thesis in the judgment of the Faculty of Medicine is of exceptional merit.

#### PROFESSIONAL EXAMINATION FOR DEGREE OF MASTER OF SURGERY.

- XII.** 1. Subject to the conditions hereinafter specified the Degree of Master of Surgery shall be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Glasgow, and is of the age of twenty-four years or upwards, and has produced a certificate of having been engaged, subsequently to his having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, for at least one year in attendance in the Surgical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Military or Naval Medical Services, or for at least two years in practice other than practice restricted to Medicine.
2. Each candidate for the Degree of Master of Surgery shall be required to pass an examination in the following subjects:—Surgical Anatomy, Operations upon the dead body, and Clinical Surgery, and in such of the special departments of Clinical Surgery as the Senatus, with the approval of the University Court, by Regulations framed from time to time, may determine; and he may present himself for examination in these subjects at any period of examination subsequent to one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery.
3. Each candidate for the Degree of Master of Surgery shall submit, for the approval of the Faculty of Medicine, a Thesis on any branch of knowledge comprised in the second, third, or fourth Examinations for the Degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of study after having received those Degrees, excepting subjects that are exclusively medical; and the Thesis, accompanied by a declaration signed by the candidate that the work has been done and the Thesis composed by himself, shall be lodged with the Dean of the Faculty of Medicine on or before a date to be fixed by the Senatus.
4. A Bachelor of Medicine and Bachelor of Surgery who produces to the Senatus satisfactory evidence of his intention of entering, within twelve months after obtaining such degrees, on the practice of his profession in a British Possession or Colony, or in a foreign Country, may, under Regulations to be framed by the Senatus, be admitted to examination in the subjects specified in Sub-section 2 of this Section, at any period of examination after he has received such Degrees; but the Degree of Master of

Surgery shall not be conferred on him unless he shall produce a certificate that, subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attendance in the Surgical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval or Military Medical Services, or for at least two years in practice which has not been exclusively medical, and unless his Thesis in the judgment of the Faculty of Medicine is of exceptional merit.

#### FEES.

XIII. The fee to be paid for the Degrees of Bachelor of Medicine and Bachelor of Surgery shall be twenty-two guineas, and the proportion of this sum to be paid by a candidate at each division of the examination shall be regulated from time to time by the University Court. The fee to be paid for the Degree of Doctor of Medicine shall be ten guineas, exclusive of any stamp duty which for the time may be exigible. The fee to be paid for the Degree of Master of Surgery shall be ten guineas.

#### EXAMINERS.

XXIV. The Examiners for graduation in Medicine in the University of Glasgow shall be the Professors in that University, together with such Lecturers in the University and such additional Examiners, to be appointed by the University Court, as the University Court shall deem necessary. Provided that the Court shall make such provisions as will ensure that every candidate shall be examined in each subject by at least two examiners, of whom one shall not be a Professor or Lecturer in the University. The examinations shall be conducted under regulations framed by the Senatus subject to the approval of the University Court.

#### DATE OF COMING INTO EFFECT.

XXV. Every student who began his Medical Studies before the date when this Ordinance shall come into operation shall be entitled to graduate under the system in force before or after that date, according as he shall comply with the Regulations in force in the University before or after that date.

XXVI. The provisions of this Ordinance shall come into operation at the beginning of the Winter or Summer Session next after the approval thereof by Her Majesty in Council.

In witness whereof these presents are sealed with the seal of the Commission.

A. S. KINNEAR, *Chairman.*

V. ORDINANCE NO. 18. [GENERAL, NO. 9—REGULATIONS FOR THE GRADUATION OF WOMEN AND FOR THEIR INSTRUCTION IN THE UNIVERSITIES.]

*At Edinburgh, the twenty-second day of February, Eighteen hundred and ninety-two years.*

WHEREAS, etc.

I. It shall be in the power of the University Court of each University to admit women to graduation in such Faculty or Faculties as the said Court may think fit.

II. It shall be competent to the University Court, after consultation with the Senatus, to make provision within the University for the instruction of women in any of the subjects taught within the University, either by admitting them to the ordinary classes, or by instituting separate classes for their instruction. Such classes shall be conducted by the Professors or Lecturers in the several subjects, or by Lecturers specially appointed for the purpose by the University Court, provided always that the Court shall not institute classes where men and women shall be taught together except after consultation with the Senatus, and provided also that no Professor whose commission is dated before the approval of this Ordinance by Her Majesty in Council shall be required, without his consent, to conduct classes to which women are admitted.

III. The conditions for graduation within any Faculty in which women are admitted to graduation, shall be the same for women as for men, subject to the following modifications, which shall have effect until within each Faculty provision is made for the instruction of women in all subjects qualifying for graduation, in which provision is made for the instruction of men :—

(1) Section XXV. of Ordinance General No. 6 (Regulations for Degrees in Arts) shall not be applicable to the graduation of women in Arts ; Section IV. of Ordinance General No. 7 (Regulations for Degrees in Science) shall not be applicable to the graduation of women in Science ; and Section VIII. of Ordinances Glasgow No. 1 (Regulations for Degrees in Medicine), Aberdeen No. 1 (Regulations for Degrees in Medicine), and Edinburgh No. 1 (Regulations for Degrees in Medicine), shall not be applicable to the graduation of women in Medicine.

(2) So long as within the Faculty of Arts in any University provision is not made for the instruction of women in any subject qualifying for graduation in which provision is made for the instruction of men, it shall be in the power of the University Court to admit to graduation women who have received the requisite instruction in that subject in any Scottish University, or from any teacher or in any Institution, within the University town, recognised for the purposes of this Ordinance by the University Court : Provided always that every candidate for graduation shall produce evidence of having satisfied the conditions laid down in Ordinance General No. 6 (Regulations for Degrees in Arts)

with respect to the Preliminary Examination, and shall be examined in all the subjects necessary for graduation by the Examiners of the University in which she takes her degree.

(3) So long as within the Faculty of Science in any University provision is not made for the instruction of women in any subject qualifying for graduation in which provision is made for the instruction of men, it shall be in the power of the University Court to admit to graduation women who have received the requisite instruction in that subject in any other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science : Provided always that every candidate for graduation shall produce evidence of having satisfied the conditions laid down in Ordinance General No. 7 (Regulations for Degrees in Science) with respect to the Preliminary Examination, and shall be examined in all the subjects necessary for graduation by the Examiners of the University in which she takes her degree.

(4) So long as within the Faculty of Medicine in any University provision is not made for the instruction of women in any subject qualifying for graduation in which provision is made for the instruction of men, it shall be in the power of the University Court to admit to graduation women who have received the requisite instruction in that subject in any University of the United Kingdom, or in any Indian, Colonial, or Foreign University recognised for the purpose by the University Court, or in such Medical Schools or under such teachers as may be recognised for the purpose by the University Court : Provided always that every candidate for graduation shall produce evidence of having satisfied the conditions laid down in Ordinances Glasgow No. 1 (Regulations for Degrees in Medicine), Aberdeen No. 1 (Regulations for Degrees in Medicine), and Edinburgh No. 1 (Regulations for Degrees in Medicine) with respect to the Preliminary Examination, and shall be examined in all the subjects necessary for graduation by the Examiners of the University in which she takes her degree.

IV. So soon as within any of the said Faculties in any University provision is made for the instruction of women in all subjects qualifying for graduation in which provision is made for the instruction of men, the conditions for the graduation of women within such Faculty shall be the same as the conditions for the graduation of men.

V. In the case of women who have begun their studies before the date when this Ordinance shall come into operation, it shall be competent to the University Court of any University—

(1) To admit to graduation in Arts, without further examination, women who are registered in the books of the University as having regularly attended classes conducted by the Professors of the University or by their class assistants in the seven subjects hitherto required for the Ordinary Degree of Master of Arts, viz., Latin, Greek, Mathematics, Natural Philosophy, Logic and Metaphysics, Moral Philosophy, and English Literature, and as having, after examination by the University Examiners for the said Degree in all these subjects, obtained the Pass Certificates in Arts of the University.

(2) To admit to graduation in Arts women who are registered in the books of the University as having regularly attended any three or more of the classes aforesaid, and as having obtained the corresponding Certificates aforesaid, provided that they shall have given the required attendance at classes, and passed the required examinations in the remainder of the seven subjects specified in the Sub-sections immediately preceding.

(3) To admit to graduation in Medicine women who may complete their medical studies in accordance either with the regulations for graduation hitherto in force, or with the regulations prescribed by this Ordinance; declaring that as regards their studies prior to the date at which this Ordinance comes into operation, such women may have obtained their instruction in any classes which the University Court may accept for the purpose, and providing that before beginning their medical studies they shall have passed a Preliminary Examination which the University Court shall consider to have been adequate.

VI. (1) Women who may attend classes in any University must matriculate in that University, paying a fee of the same amount as that exigible for other students. (2) Women, who are candidates for graduation but not matriculated students, and who may attend classes within a University town, under the provisions of Section III. hereof, must, at the commencement of each year of such attendance, enrol their names in a book to be kept in the University for that purpose, paying a Fee of the same amount as the Matriculation Fee paid by students of the University.

VII. It shall be the duty of any University Court, which may exercise the power conferred by this Ordinance, to make regulations for the use by women of such libraries and museums as are open to matriculated students of the University.

VIII. Nothing herein contained shall prejudice the provisions of any future Ordinance by which any College may be affiliated to any University under the powers contained in Section 15 of the Universities (Scotland) Act, 1889.

IX. This Ordinance shall come into force at the beginning of the first academical year after the date on which it is approved by Her Majesty in Council.

In witness whereof these presents are sealed with the seal of the Commission.

A. S. KINNEAR, *Chairman.*

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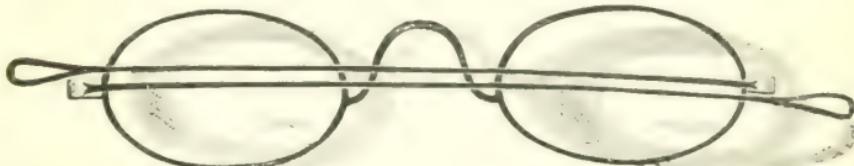
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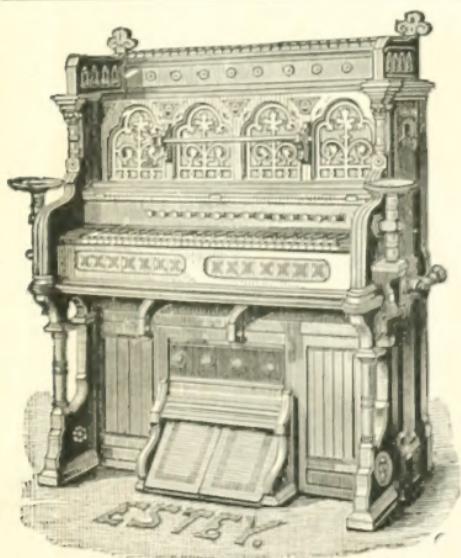
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